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IDA GROUND-AIR MODEL I (IDAGAM I)

Volume 4: Documentation

Lowell Bruce Anderson Jerome Bracken James G. Healy Mary J. Hutzler Edward P. Kerlin

October 1974

INSTITUTE FOR DEFENSE ANALYSES, PROGRAM ANALYSIS DIVISION



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The IDA Ground-Air Model I (IDAGAM I) is a deterministic, fully-						
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(1) Comprehensive Description, (2) Definitions of Variables,						
(3) Detailed Description of Selected Portions, (4) Documentation,						
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FOREWORD

IDAGAM I is a deterministic, fully automated model of non-nuclear combat between two opposing forces. The purpose of this report is to describe and document IDAGAM I. The report consists of five volumes, the contents of which are summarized as follows:

Volume 1 - Comprehensive Description

- I. LEVEL OF DETAIL OF IDAGAM I
- II. DESCRIPTION OF IDAGAM I
- III. LIMITATIONS OF IDAGAM I AND SUGGESTIONS FOR FURTHER RESEARCH

REFERENCES

Volume 2 - Definitions of Variables

- I. PROGRAM, OVERLAYS, AND SUBROUTINES
- TI. DEFINITIONS OF VARIABLES

Volume 3 - Detailed Description of Selected Portions

- I. MAXIMUM NUMBER OF RESOURCES AND OTHER QUANTITIES THAT CAN BE PLAYED
- II. THE AIR-COMBAT MODEL
- III. THE GROUND-COMBAT MODEL
 - IV. THE THEATER-CONTROL MODEL
 - V. THEATER CONTROL AT TIME ZERO
 - VI. GEOGRAPHY

Volume 4 - Documentation

- I. STRUCTURE OF IDAGAM I
- II. MACHINE CONVERSION
- III. PREPARATION OF INPUTS
- IV. DESCRIPTION OF OUTPUTS
- Appendix A. SAMPLE OUTPUT
- Appendix B. RELATIONSHIPS AMONG VARIABLES
- Appendix C. VARIABLE SIZES AND LOCATIONS

Volume 5 - Testing

- I. DESCRIPTION OF THE TEST PLAN
- II. RESULTS OF TESTS
- III. CONCLUSIONS

Appendix. SOURCES OF INPUT DATA

Volumes 1, 2, 3, and 4 are Unclassified; Volume 5 is Secret.

Since it would be much too unwieldy to include a copy of the code of the IDAGAM I computer program in this report, no such copy is included here. Copies of this code on appropriate media (tape, cards, etc.) can be obtained directly from the Institute for Defense Analyses.

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INTRODUCTION

The IDAGAM I model is described in Volumes 1 and 3 of this report, and the user is referred to those volumes for comprehensive and detailed descriptions. The purpose of this volume is to assist the user in implementing IDAGAM I on any computer system, in structuring data decks, and in understanding the output format.

IDAGAM I was programmed for use on a CDC 6400 computer with 151K (octal) core capacity. The model, however, was programmed to make it easily adaptive to any system; and the model is already running on an IBM 360.

Due to the complexity of IDAGAM I, it was necessary to structure the model into a main overlay, seven primary overlays, and seven secondary overlays. The main overlay consists of the MAIN program, blank COMMON, and subroutines EIGENV, MPROD, and PR2. The primary overlays are TZERO, AC, GC, TC1, TC2, RF, and RPOMF:

TZERO contains the subroutines RCD, RFTZ, RPTZ, RPAC, and TCTZ. The first four of these subroutines read inputs at time zero, and TCTZ prepares the model for the first day of combat.

AC is the air-combat model.

GC is the ground-combat model.

TCl is theater control 1.

TC2 is theater control 2.

RF reads forces at time t.

RPOMF contains subroutines RP and MF. RP reads parameters at time t, and MF is a user option to move forces as directed by input.

All seven secondary overlays are contained in primary overlay AC and are designated as ACl, AC2, AC3, AC4, AC5, AC6, and AC7. All routines will be discussed in greater detail later.

The model has two input files designated by MZT and MTT, where MZT is the input file for time-zero inputs and MTT is the input file for time-t inputs. The program has set MZT = 4 and MTT = 5; however, these values can be changed very easily, if desired. There is only one output file designated as MOT (= 6); and all values, both of inputs and outputs, are printed on that file.

Chapter I

STRUCTURE OF IDAGAM I COMPUTER PROGRAM

Program MAIN controls the execution of IDAGAM I by calling all primary overlays. During each time period of the war, the air-combat routine (AC) and the ground-combat routine (GC) are executed. These two routines are primary overlays 2 and 3, respectively. The theater-control routines TCl and TC2 (primary overlays 4 and 5, respectively) are called by MAIN one time period less than the total number of time periods. The first primary overlay, which is program TZERO, is called only once, since, from that routine, subroutines are called that read the time-zero inputs and initialize variables and geography. The last two primary overlays (6 and 7) are called only if the user designates changes in forces or parameters or if the option to move forces by input is elected.

Besides calling the primary overlays, MAIN reads inputs that indicate print options, the number of time periods to be played, and the time periods when changes to forces and parameters should be made. The time periods designated to make changes influence whether primary overlays 6 and 7 are called.

Figure 1 is a flow chart for MAIN.

Subroutine PR2, which is also in the MAIN overlay, is the summary print routine. If IPR2T is inputted with value 1, PR2 is called for those periods designated by the input array IPRB. PR2 is the only summary print routine and, if called, prints out ground and logistic data for both Red and Blue at the very end of the designated time period. It is the very last routine to be executed in any time period and reflects all changes due to attrition and increases to forces resulting from

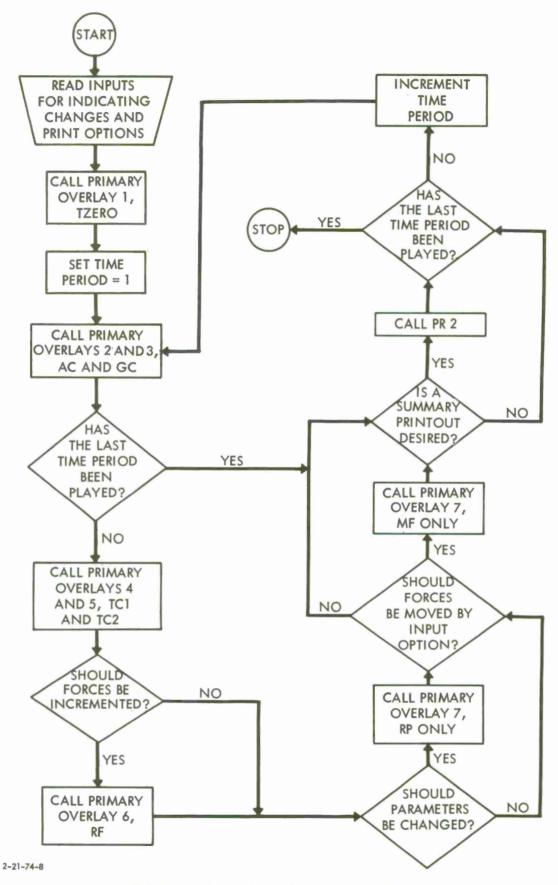


Figure 1. A FLOW CHART FOR MAIN

inputting in routine RF within that time period. Only a maximum of 16 time periods can be requested during any computer run. However, it is easy to increase that number simply by increasing the dimension of IPRB and changing the limit of the DO loop.

Summary air data will be discussed later.

Subroutines EIGENV and MPROD are also in the main overlay and are used in computing the value of Blue and Red weapons in both the TZERO and GC overlays. EIGENV performs the calculation by computing an eigenvector of the Blue-on-Red times the Red-on-Blue effectiveness matrices by a convergence method on the eigenvalue. The user inputs the index of the weapon used as the reference weapon and an epsilon value for convergence. If the component of the eigenvector specified by the inputted index is ever zero or a sufficiently small number, as compared to the input EPSLON, the program stops and prints the following message: "ANTI-POTENTIAL POTENTIAL OF BLUE REFERENCE WEAPON EQUALS O. RERUN SELECTING A DIFFERENT WEAPON." The eigenvector approach for computing Blue and Red weapon values is an option used only when the method for computing force ratios (variable MCFR) is inputted as 5 or 6. MPROD is called only to multiply an MxN matrix by an NxL matrix, returning an MxL matrix.

Primary overlay TZERO calls input routines RCD (read campaign description), RFTZ (read forces at time zero), RPTZ (read parameters at time zero), RPAC (read parameters for air combat) and TCTZ (theater control at time zero). This overlay is called once in every run.

RCD reads the number of geographical quantities and the number of types of weapons, munitions, and forces to be played. The routine initializes the campaign description, which is then supplemented by the other input routines.

RFTZ reads all Blue and Red forces at time zero. These forces include the number of divisions, people, and weapons in sectors, regions, and the COMMZ; the number of aircraft,

SAMs, and AAA in regions and the COMMZ; the number of air-craft shelters; the number of supplies; and the number of support and replacement people and replacement weapons in the COMMZ.

RPTZ reads Blue and Red parameters at time zero, except for air parameters. These inputs include the description of the geography and the weapon-effectiveness, weapon-allocation, and theater-control parameters.

RPAC reads Blue and Red air parameters at time zero. These parameters include selection of an attrition function, determination of the percent of each type of aircraft sent on the seven primary air missions, and specification of probability-of-detection and probability-of-kill parameters, sortic rates, and the priority for sheltering aircraft.

All the above input routines are read by file MZT, which has a value of 4 in the program. They are all inputted by F format and will be described in the input section (Ch. III). There are no checks for incorrect values; and, depending on the machine or the type of error, either execution will terminate or unreasonable answers will result. Therefore, the input order must be followed in setting up the data deck.

TCTZ (theater control at time zero) is used to calculate all quantities needed in the program that are not changed by later routines, to initialize all variables including cumulative values that are outputted, and to perform simple arithmetic calculations to help the user in preparing inputs. Values of Blue and Red air and ground weapons are calculated in TCTZ and are used in the theater-control and air-combat models. EIGENV and MPROD are called by TCTZ to compute eigenvalues and eigenvectors for this calculation (if MCFR equals 5 or 6). TCTZ is called only once and always produces output, since this routine calculates values that are not changed but that are used throughout each particular run.

The second primary overlay consists of AC, which calls seven secondary overlays (AC1, AC2, AC3, AC4, AC5, AC6, and AC7). and a small subroutine ATTRIT. ATTRIT computes by one of six attrition equations (which are selected by input) the fraction of targets killed. AC and all seven secondary overlays contain three labeled COMMONs (called Cl, C2, C3), which consist of air variables that all routines share. ACl calculates aircraft supply consumption, positions shelters, and computes percentage allocations of each type of aircraft from all airbases to all opposing airbases for each primary mission: CAS, CASE, BD, ABA, ABAE, ABD, and IDR. AC2 allocates numbers of aircraft to missions by the percentages computed in ACl and determines the number of aircraft originally allocated to CAS and ABA missions that are to be sent on SAM- and AAA-suppression missions. AC3 and AC4 compute air-to-air attrition for Red attacking Blue (and. similarly, AC5 and AC6 compute for Blue attacking Red). AC7, the last air routine, calculates all remaining air interactions. In this routine, aircraft are killed on the way home, all airto-air attrition is parceled out, air-to-ground attrition by successful ABA aircraft is calculated, IDR is modeled, and priority sheltering is considered. AC7 also contains a section that computes cumulative aircraft quantities (such as sorties flown, aircraft killed, and shelters destroyed); and these values, which are always printed out if a detailed output is requested. may be obtained either by themselves or with a summary printout. Note that the air results printed here occur after the air war and before the ground war. (For a detailed description of outputs, see Chapter IV and Appendix A, below).

Primary overlay GC is the ground-combat routine; and it is called by MAIN, immediately following AC. Over three-quarters of GC consists of a DO loop over sectors where ground attrition (including CAS air-to-ground attrition), supply consumption, weapon-protection groups, and FEBA calculations are computed. Additional FEBA adjustments and cumulative casualties and

weapon losses are computed after the DO loop. GC also computes a killer-target scoreboard that gives numbers of people and weapons (by type) killed by weapons (by type) and aircraft (by type). A summary output will give a cumulative killer-target scoreboard; however, a detailed output must be requested in order to receive a killer-target scoreboard for data occurring on any particular day.

Included in the GC overlay is a small subroutine CVFW, which computes f(x) given the arguments x_1, \ldots, x_n , the functional values $f(x_1), \ldots, f(x_n)$, and x. CVFW is called only by GC.

Primary overlays TCl and TC2 are the theater-control routines. They are not called during the last time period of the war. TCl adds people, weapons, and supplies to the pools in the COMMZ, adds replacement people and weapons to divisions in regions and sectors, considers delayed effectiveness of replacements, considers the effect of weapon shortages on personnel replacements, and adds repaired weapons to the pools. TC2 calculates geographical quantities due to changes in FEBA movement, computes sector withdrawals and region and sector reinforcements of divisions, and ships supplies to regions and sectors when shortages exist. The user has the option to move forces through inputs by using subroutine MF. (This routine will be discussed later in this chapter.)

Primary overlays 6 and 7 are option routines and are called only if the user designates. Primary overlay 6 is RF (which reads forces at any time t during the battle, where t is the value designated by the variable NTRF). The forces read by RF are the same as those previously read by RFTZ. All values read by RF are added to the values currently contained in the appropriate variables that are being changed. During any particular time period, the user may increment forces for either Red, Blue, or both. The variables IRFB (index to read forces

Blue) and IRFR (index to read forces Red) are the indicators, where the value 1 is inputted if forces for that side are to be read and, otherwise, 0 is inputted. If it is desired to change only a subset of the variables for a particular side and 1 is designated for that side's index, all variables not in that subset must be inputted with the value 0. A zero increment will not change the current value of those forces. After RF has read all force variables, it reads new values for NTRF, IRFB, and IRFR, indicating the (1) next time period to read forces and (2) whose forces will be incremented during that time period. A more detailed description is in the section on input preparation.

Primary overlay 7 is program RPOMF (which is a calling routine for subroutines RP and MF). Subroutine RP (read parameters at time period t) is called, whenever the user indicates, by inputting the time-period value t in the variable NTRP (next time to read parameters) or in the variable NTAP (next time to read air parameters). RP is an input routine that can change one or more of a subset of variables from subroutines RPTZ and RPAC. The selection of this subset was based on variables thought to be most frequently changed. RP uses NAMELIST for inputting and outputting of the parameters to be changed. The NAMELIST group name for the variables from RPTZ is NAMEL: and from RPAC, NAME2. If variables not designated are desired to be changed, they need only be inserted in either NAMEl or NAME2, as appropriate. RP, like RF, reads the value for the next time period that parameters should be changed, immediately following all the NAMELIST cards. That value is inputted for NTRP (if RPTZ parameters were changed) or for NTAP (if RPAC parameters were changed).

Subroutine MF allows the user to move forces directly, rather than by the automated logic of TC2. This routine will not only move forces between sectors within a region as TC2 does, but also allow the user to move forces between all

sectors and all regions. MF first reads in an array that indicates how many of six possible moves the user desires. Then for each move, the user must input the number of divisions he wishes to move, the type of division, the location from which he wishes to move them, and the location to which he wishes to move them. If the number that is inputted is greater than the number at a particular location, the program moves only the number of divisions that are present at that location. The six possible moves, identified by the variable ISRZ, include (in order) moves from sector to sector, sector to region, region to sector, region to region, COMMZ to sector, and COMMZ to region. MF first moves Blue forces, and then Red. If the user desires to move forces for only one side, he must input 0 for the number of moves of each of the six possible types. The variable for the number of moves is NBMSR(ISRZ) and NRMSR(ISRZ) for Blue and Red, respectively. MF is the next-to-last routine to be called in a particular time period, if requested, and that time period must be indicated through the variable NTMF (next time to move forces). Similar to RF and RP, MF reads a new value for NTMF immediately preceding the return to MAIN. If no additional calls to MF are desired, a value greater than the number of time periods to be played should be inputted for NTMF.

Chapter II MACHINE CONVERSION

IDAGAM I has been programmed to facilitate easy adaptation to any computer. However, IDAGAM I does contain certain statements that must be changed when the program is to be run on a machine other than the CDC #6000 series. The first such statement is the program card, which CDC demands as the first card of each program. The other statements all deal with the overlays. There are nine CALL OVERLAY statements in the MAIN program and seven CALL OVERLAY statements in routine AC, all of which have the following format: CALL OVERLAY (5HGACAM, J, K, 6HRECALL). GACAM is the variable name of a location that contains the name of the file that contains the overlay. J and K are integers that identify the primary and secondary levels of overlay, respectively. 6HRECALL indicates that the overlay is not reloaded if it is already in memory. The latter statement is useful only for the seventh primary overlay, either when RP is called twice in the same time period (once for ground-parameter changes and once for airparameter changes) or when RP and MF are both called during the same time period. Considering that more than one call to primary overlay 7 occurs infrequently in one time period, the RECALL statement can increase efficiency only very slightly. All nine of these statements must be adapted to the specific overlay format of the system on which IDAGAM I will be run. There is also an OVERLAY card before each primary and secondary overlay and before the main overlay, totaling 15 cards. An example of an OVERLAY card is OVERLAY (5HGACAM, J, K), which indicates the Jth primary level and Kth secondary level of overlay. Each overlay is a program; and, hence, there is

a total of 15 program cards, each occurring after an OVERLAY card. There are 46 cards (15 program, 15 OVERLAY, and 16 CALL OVERLAY) that must be deleted or changed.

The only other adjustment that might be necessary is in the use of NAMELIST in subroutine RP. Since this adjustment may change only the structure of the data deck, it will present no change to the program itself.

Chapter III

PREPARATION OF INPUTS

Due to both the quantity of inputs and the fact that RF, RP, and MF can read inputs on any particular day, the preparation of inputs is a tedious job that requires detailed care. There are no computer checks in the program that screen the data, and thus erroneous answers or machine rejection might result if data cards are out of order or are keypunched inaccurately.

All data are inputted by a structure of 10 columns to a variable. Integers are always inputted by I10 format and floating point numbers by Flo.n, where n ranges between 1 and 4. Since using the decimal point when inputting a floating point number overrides the format, it is convenient to left-adjust the floating point number in a field of 10 and to disregard the indicated number of decimals in the F format.

All inputs are printed out immediately after inputting, and their output follows the same format as their input did. Therefore, although the decimal point will override the format in input, the number will be rounded in output if the number of decimals exceeds the number indicated in the F format.

The first seven data cards are read by MAIN from file MTT and contain information about outputs and when option routines should be called. The first card contains the variables NTPP, NTRF, NTRP, NTMF, NTAP, which give, in order, the number of time periods to be played, the first time period that additional forces should be read in (RF called), the first

time period that ground parameters should be changed (RP called for ground parameter changes), the first time period that forces should be moved by inputs (MF called), and the first time period that air parameters should be changed (RP called for air parameter changes). The second card contains the variables IRFB and IRFR, which indicate whether Blue and/or Red forces should be incremented by RF during time period NTRF. The value I indicates that they will be incremented; O indicates that they will not. The third card contains the variables IPRIT and IPR2T, which indicate whether a detailed (IPRIT) and/or a summary (IPR2T) print option is desired -- by a 1 indicating the affirmative, and 0 the negative. The fourth and fifth cards contain the data for the array IPRA, which indicate during which time periods a detailed printout is desired. The maximum number of time periods to obtain a detailed output is 16. Similarly, the array IPRB, whose data appear on the sixth and seventh cards, indicates for which time periods a summary output is desired. The summary output obtained by IPRB gives only the ground summary, which is outputted by subroutine PR2. In order to get a summary air output, which is always obtained with a detailed output, the time period when the air summary is desired must be multiplied by 1,000 and inputted in array IPRA. If both detailed and summary air outputs are desired, the time periods for the detailed output must come first and then the time periods multiplied by 1,000 for the summary air output. Two cards for each array, IPRA and IPRB, must appear; and if 16 summary or detailed outputs are not desired, any time period greater than NTPP should be inserted in the additional locations in the respective arrays. (An example is indicated in Appendix A.)

After program MAIN reads the first seven cards, all timezero inputs are read by RCD, RFTZ, RPTZ, and RPAC. RCD reads only six cards, which give the numbers of types of divisions, weapons, aircraft, and air munitions and the numbers of sectors, regions, postures, and terrains. Care should be taken in checking that they do not exceed the dimensions of variables that are dependent upon them. The program is now dimensioned so that the following values cannot be exceeded:

NJ	(maximum number of sectors)	10
NIB	(maximum number of Blue regions)	4
NIR	(maximum number of Red regions)	4
NKP	(maximum number of postures, except holding)	4
NKT	(maximum number of terrains)	4
NKBD	(maximum number of types of Blue divisions)	6
NKBP	(number of types of Blue people) must be	3
NKBW	(maximum number of types of Blue weapons)	10
NKBA	(maximum number of types of Blue aircraft)	8
NKBAM	(maximum number of types of Blue air munitions)	10
NKRD	(maximum number of types of Red divisions)	6
NKRP	(number of types of Red people) must be	3
NKRW	(maximum number of types of Red weapons)	10
NKRA	(maximum number of types of Red aircraft)	8
NKRAM	(maximum number of types of Red air munitions)	10
NLEB	(maximum number of days it takes a Blue replacement to gain full effectiveness)	5
NLER	(maximum number of days it takes a Red replacement to gain full effectiveness)	5
NIBRL	(maximum number of intervals where Blue has desired reserve levels)	8
NIRRL	(maximum number of intervals where Red has desired reserve levels)	8
NIFPBS	(maximum number of indexes for FEBA position of Blue shelters)	10
NIFPRS	(maximum number of indexes for FEBA position of Red shelters)	10

Any of these variables can be increased, provided that all COMMON and DIMENSION statements are adjusted accordingly and that the resulting program will still fit in core. (For a list of variables that depend on each of these values, see Appendix B; and for a discussion of DIMENSION statements, see Appendix C.)

RFTZ, RPTZ, and RPAC read all other time-zero inputs. Since all variables are read by either IlO or Flo.n format, only eight values can be inputted on a single card. A onedimensional variable of dimension 10 will be inputted on two cards, the first containing the first eight values of the array. the second containing the last two values of the array in the first 20 columns of the card. A two-dimensional variable A(I,J) is inputted with the I dimension as the rows and the J dimension as the columns. If, for example, A is a 2x10 array, four cards will be needed for inputting and card I will contain the values for I = 1 and J = 1-8; card 2 will contain I = 1 and J = 9-10; card 3 will contain I = 2 and J = 1-8; card 4 will contain I = 2 and J = 9-10. A three-dimensional array B(I,J,K)will have I and J representing the rows and K representing the columns. If B is a 2x2x10 array, the first card will contain values of I = 1, J = 1, and K = 1-8; the second card will contain values for I = 1, J = 1, and K = 9-10; the third card will contain values for I = 1, J = 2, and K = 1-8; the fourth card will contain values for I = 1, J = 2, and K = 9-10; and the fifth through eighth cards will contain values for the above representation of J and K, but with I having the value 2 throughout. Again, all cards must be in exactly the same order as read by the input routines. (The order of the variables is given in Appendix A.)

Routines RF, RP, and MF read inputs during the time periods the user designates that they should be called. The routines are called at the discretion of the user; and any combination of these routines may be called, or none of them may be called. However, when called they must be in the proper order both according to time period and to calling order in the program. Within a time period, the program first checks variable NTRF to see if forces should be read. If so, the variables IRFB and IRFR are checked to see if Blue forces, Red forces, or both should be read. If both forces are to be

read, Blue-force variables are read first. After reading forces, the program checks variable NTRP to see if ground parameters should be changed; and then it checks NTAP to see if air parameters should be changed. Both parameters are changed by using NAMELIST, where the first parameters are in the NAMELIST group NAME1 and the second parameters are in the NAMELIST group NAME2. Variable NTMF is checked last to see if MF should be called. If, after each variable is checked, the routine is called, the last input in each routine is the variable that indicates the next time that routine should be called; and, in the case of RF, the values for IRFB and IRFR are also included.

All routines except RP have input formats of IlO or Flo.n. NAMELIST is used by RP, and the specific structure should be checked on each system. The NAMELIST structure on the CDC requires a dollar sign (\$) in Column 2, followed immediately by the NAMELIST group name, the data items (separated by commas), and a dollar sign (indicating completion of the input record). The data items can be any subset of the variables indicated in the NAMELIST group name. The data item is specified and then equated to its value. If the value of only one element of an array is changed, only the variable name with that dimension needs to be included in the NAMELIST input. If the entire array is to be changed, only the first location need be inputted (followed by all values for the array in the order that the machine stores them). For CDC, the storage location is columnwise. If more than one input card is needed, successive cards also start in Column 2.

Consider the variables PBAl(KBA) and PBA2(KBA), both dimensioned to 8. An example of using NAMELIST in changing these air parameters is as follows:

Column 2 \$NAME2 PBA1(1) = . 2 , . 2 , . 2 , 0 .

If PBA2 is stored after PBA1, PBA2 can be eliminated from the above statement as follows:

Column 2 \$NAME2 PBA1(1)=.2,.2,.2,0.,0.,0.,0.,0.,1,.1,.1,0.,0.,0.,0.,0.\$ Duplication of values is handled by k * v, where k indicates the number of times the value v appears in succession. This statement then becomes

Column 2 \$NAME2 PBAl(1) = 3 * .2, 5 * 0., 3 * .1, 5 * 0.\$

Again, note that this description of NAMELIST is specific to the CDC 6000 series and that the structure of this type of statement will vary from system to system.

Chapter IV

DESCRIPTION OF OUTPUTS

Each time a computer run is made, certain outputs are always printed on file MOT. These outputs include all inputs and the outputs from subroutine TCTZ. Each input is outputted immediately after being read—the output appears in the same format as the input—enabling the user to check for incorrect inputting from which inaccurate answers might result.

The first inputs outputted are the seven cards from MAIN describing the time periods and the output options. These inputs are followed immediately by all the time-zero inputs, which include those read by RCD, PFTZ, RPTZ, and RPAC. In output, the variable name or the group of variable names appears and is immediately followed on the next line by the values it contains. On the same line that the variable names appear is a two-, three-, or four-digit number that uniquely represents within an input routine the variables on that line. This number is often convenient in locating a specific variable.

The TCTZ outputs immediately follow the outputting of all numbered time-zero inputs and start at the top of a new page. Since TCTZ initializes geography and calculates variables that are used throughout the program, all TCTZ outputs are printed on output file MOT. The output consists of the variable name in the program followed on the next line by its value. A one-dimensional array is printed on one line going from left to right. Most format statements will allow only 10 values across the page; and thus, if a variable has its last dimension greater than 10, additional values occur on the next line. A two-dimensional array A(I,J) is read with the I dimension

indicating the rows and the J dimension indicating columns. And a three-dimensional array B(I,J,K) will have I and J indicating rows and K indicating columns, with J varying first. For instance, the output for variable BWDS(KBW,KBD,J), where BWDS is a 10x4x7 array, will be a matrix where the first four rows will be values for KBW = 1 and KBD equaling 1-4 (depending on the number of the row). There will be seven columns indicating the seven values of J. The same description applies to the next four rows (5-8), except that KBW = 2. This process continues until KBW = 10, and thus the output matrix for BWDS is 40x7. This method of reading variables is true for all output that is described by a variable name.

The rest of the output is a combination of user output options and values that are inputted at a later time period. A detailed output option returns values for variables as they are calculated or recalculated and thus is outputted by the air-combat, ground-combat, and theater-control routines themselves. The output is numerous, and in many cases a variable is outputted as often as its value is changed. To read a detailed output, it is almost essential to follow along with the program, so that each value represents its proper calculation. For instance, after each attrition calculation, the number of people and weapons are outputted; but depending on its location in the program, that value may be the number left after combat or after nonbattle casualties are subtracted. A detailed output begins first with all air routines, outputs all major calculations, and then, in order, outputs GC, TCl, and TC2 values. The GC outputs are sector by sector for over three-fourths of the routine, and the beginning of each sector starts at the top of a new page headed with the day and sector. Hence, a three-dimensional variable BWDS(KBW, KBD, J) for a value of J = 7 will be outputted seven times, where KBW will indicate rows and KBD will indicate columns. After the sector loop is completed, the rest of the GC outputs are given as

previously described. TCl and TC2 outputs follow immediately and in similar fashion. However, the withdrawal and reinforcement sections of TC2 also contain output region by region and sector by sector and will follow the format of GC (as just described). Note that the detailed output occurs as the war is played and values reflect the result of specific calculations. The summary option will be described shortly.

Other outputs always printed are the additional force inputs or inputs indicating changes in parameters. These occur in the time period in which the input routines are called. If all options are chosen within a time period, the output will contain first the RF incremental value to forces. This output begins at the top of a page and is identified by the following heading: "THE FOLLOWING DATA ARE INPUTS INDICATING THE INCREMENTAL VALUE OF THE VARIABLES ON DAY N," where N indicates the time period when the forces indicated are inputted. Note that the values outputted here do not reflect the forces already present, but show only the desired increment. RF occurs after all combat and theater-control routines are completed; and, hence, the additional forces are not directly used until the next time period. However, they are immediately added to existing forces and are represented in the summary (which occurs at the very end of a time period) if requested. The final RF inputs are the integers indicating (1) the next time period for RF to be called and (2) whether Blue or Red forces should be changed. All outputs follow the same format as the time-zero input outputs and the number associated with each corresponding variable is identical.

Next occurs the output (from subroutine RP), which indicates changes to ground parameters in NAMELIST group NAMEL. It is written by NAMELIST output; and on the CDC 6000 series, it will have the following format:

```
$NAME1

MCSMAB = 1,

MCSMAR = 1,

ISMAB = 0, 0, 0, 0, 0, 0, 0,

ISMAR = 0, 0, 0, 0, 0, 0, 0,

:

$END
```

All variables in NAMELIST group NAMEL will be printed out with each variable beginning on a new line, with floating point numbers represented in E format, and with two- and three-dimensional arrays outputted in the same manner in which they are stored (columnwise).

After the NAMELIST changes will be the variable NTRP, followed on the next line by an integer indicating when ground parameters should again be changed. Subroutine RP will then be called immediately for air-parameter changes in NAMELIST group NAME2; and these parameters are again outputted by NAMELIST in the same format as NAME1. As with the ground changes, the variable NTAP (which indicates the next time period for air-parameter changes) will be outputted, followed on the next line by its value.

The last outputs automatically received are the value inputted by subroutine MF. These values are the number of moves from sectors and regions and the identifying characteristics of those moves. They are outputted in the same format-variable followed by value. Subroutine MF also contributes to the detailed output if the option is requested during the time period in which MF is called. This output indicates the completion of the move and the adjusted values from the move, such as the new number of people in the sector to which forces are moved and the number of people now present in the sector from which the forces were moved. As in the previous option routines,

the variable and the value for the next time to move forces are the final outputs; and they occur automatically.

The last type of output is the summary output for air and ground. These summary routines may be requested in the same time period, or they may be requested separately. When the summary is requested, it appears immediately following the air calculations, since all of it is outputted from AC7. The air summary always appears in the detailed output as the final portion of air output, and it just precedes the GC detailed output.

The majority of the air summary has English headings; however, the values for the rows and columns are not indicated in the printout. For instance, the first air output is headed as follows: "BLUE SORTIES FLOWN BY MISSION AND AIRCRAFT TYPE." The values beneath the heading will always be in the form of an llxN matrix, where N indicates the number of types of aircraft. The 11 indicates 11 of 12 types of missions (7 primary and 4 secondary), which are always outputted in the air summary. The ll missions are represented by the rows and are (in order) CAS, CAS AAA-suppression, CAS SAM-suppression, CASE, BD, ABA, ABA AAA-suppression, ABA SAM-suppression, ABAE, ABD, and IDR. The types of aircraft are represented by the columns. The output format allows for nine types of aircraft (the format statement can be changed if additional types of aircraft are desired). The output format allows for nine types of aircraft and then has a column indicating the total number of aircraft on each mission. To the right of the total column and on the line for the eleventh mission is the figure for the total number of aircraft sent on all missions. There are eight of the above type of matrices, and following them are the number of sheltered and nonsheltered aircraft killed on the ground and the new aircraft inventories (by aircraft types). The remainder of the air summary has the same format as the detailed output (i.e., variable name followed by the value). These last values

include (1) all losses due to IDR missions, (2) destruction of shelters, and (3) shelter inventories. This last output represents the number of shelters at the start of the time period and does not reflect any shelters destroyed.

The ground summary, if requested, is the very last output per time period and reflects all events in that time period, including attrition and reinforcement calculations and input changes. The first page identifies the day and indicates basic sector quantities including geographical values, force ratios, and air and ground values. The next few pages give statistics for divisions and replacements for Blue, followed by the same information for Red. The last few pages indicate cumulative ground values (such as casualties and weapon losses in sectors, with sector totals and the cumulative killertarget scoreboard). All values are indicated by their variable names and the matrices are read as described previously. All values are printed in FlO.n format, where n ranges from 1 to 4, except for certain cumulative values that normally exceed the 10-column allocation and are outputted in E format.

Appendix A contains a sample output with a discussion of certain outputs.

APPENDIX A

SAMPLE OUTPUT

Appendix A

SAMPLE OUTPUT

The following is a sample output of a two-day war, using option routines RF and RP, and requesting a summary output on days 1 and 2. Along the right edge of the output are numbered references that correspond to the notes below and that explain what appears on the line of output referenced. All numerical values presented here are for demonstration purposes only.

This sample output does not illustrate a detailed output, nor does it give any hints as to how to read one. There is also no example given for using RP to change ground parameters and for the use of MF. To include examples of all options of IDAGAM I here would be cumbersome and nonillustrative. The best way to familiarize oneself with the detailed output and the use of option routines is to read the computer program and experiment.

NOTES

- (1) Lines 90-94 indicate the value of variables inputted by MAIN. Line 90 indicates that a two-day war will be played and that RF and RP will be called on day 1 with RP changing air parameters. Line 94 indicates that only Blue forces will be read by RF on day 1. Line 91 indicates a summary output is desired. Line 92 indicates that an air summary is requested on days 1 and 2, and line 93 indicates that a ground summary is also requested on those days.
- (2) Lines 110-330 are the variables read by subroutine RCD.
- (3) Lines 1010-1255 are Blue force variables read by RFTZ.
- (4) Lines 2010-2255 (variable RGSZUZ) are Red force variables read by RFTZ.

- (5) Variable ITA (2190) indicates the start of routine RPTZ. Subroutine RPTZ reads all variables through number 8180.
- (6) Lines 8200-8373 are air variables read by subroutine RPAC.
- (7) Beginning with the variable LONSRR(IR) and continuing through variable KBDDTV(KBD) are the outputs from TCTZ. The first 18 variables describe the geography with respect to the present FEBA, and the variables following them are for weapon and air values that are calculated once for use in the AC, TCl, and TC2 routines. The standard allocation matrices are adjusted here for use in GC.
- (8) Starting here and encompassing the next two and one-half pages is the air summary for day 1. The matrices beneath each heading are llx4 for Blue and llx3 for Red, indicating 11 missions and 4 or 3 aircraft types (depending on the side). The 11 missions in order are CAS, CAS AAAsuppression, CAS SAM-suppression, CASE, BD, ABA, ABA AAAsuppression, ABA SAM-suppression, ABAE, ABD, and IDR. The "TOTAL" columns indicate the total number of aircraft sent on each mission, with the total number of aircraft sent on all missions indicated to the right of the "TOTAL" column. After eight matrices of this type are the air-to-ground losses and aircraft inventories (by type) with totals. The next line gives cumulative losses to AAA and SAMs by the air war and cumulative casualties in regions due to the interdiction mission. The following two lines indicate cumulative weapon losses in regions due to the IDR mission. and they are followed by the number of cumulative shelters destroyed by air and by being overrun. The number of shelters in regions and COMMZ at the start of the day are printed last.
- (9) The next three and one-half pages are the incremental values for Blue forces read by RF on day 1. Only air forces are read here, and they are indicated by variables number 1150, 1160, and 1170. All other variables are inputted with zeros, indicating no additional forces are brought in on day 1.
- (10) The variables on line 99 indicate that Blue forces will be read again on day 5.
- (11) The following five and one-half pages are the output from subroutine RP for NAMELIST group NAME2. NAMELIST prints out all variables in NAME2, each starting on a new line and reflecting the input changes to variables PBA1(KBA), PBA2(KBA), PBA3(KBA), PBA4(KBA), PBA5(KBA), PBA6(KBA), and PBA7(KBA). All NAMELIST output is in E format.

- (12) Line 98 indicates that the next day to read air parameters is day 3.
- (13) This is the first page of the ground summary for day 1. It indicates the theater and sector attackers and gives other sector data. Either 0 or -0 may indicate values not calculated.
- (14) The following two and one-half pages are Blue force values as exist at the very end of time period 1. This output reflects losses (which are subtracted after the first day's combat) and increases (which are due to inputting forces in RF). Totals calculated for people by sectors and regions are printed just below each, with totals for all sectors, all regions, and the COMMZ printed to the right of the page. There is also a value printed for the "TOTAL EFFECTIVE 1 PEOPLE IN THEATER," which includes all effective people in divisions and pools (both support and replacement) in all sectors and regions and in the COMMZ. Following the people values are the values for weapons in sectors, regions, and the COMMZ; and these values are totaled by weapon type and printed at the right of the page. The final values are for support people, replacement people and weapons, and supplies.
- (15) The following two and one-half pages give Red force values at the end of day 1--in the same manner as statement (14) described for Blue.
- (16) This page gives comulative values for casualties and weapon losses occuring in ground combat. Casualties are listed for each sector and for all sectors; weapon losses are listed by sector and weapon type and for all sectors by weapon type. Cumulative percent casualties are computed as cumulative casualties divided by the total people in all divisions and sectors during all days of the war until day N, where N designates the time period outputted. Here N = 1. The variables CBNBC and CRNBC indicate cumulative nonbattle casualties in all sectors and all regions.

lDAGAM I plays delayed effectiveness of personnel replacements. If it is assumed that each personnel replacement is 50 percent effective on the first day and 100 percent effective on the second day, then IDAGAM I will play two replacements on a particular day to a particular division as if that division received one fully effective replacement on that day and one fully effective replacement on the next day. The total effective people is the total number of fully effective people based on this concept.

Variables CBNBCM and CRNBCM are cumulative nonbattle casualties due to mines and are included in the variables CBNBC and CRNBC. The following line gives cumulative supply losses due to interdiction enroute to sectors.

- (17) The remainder of the day-l output is the cumulative killer-target scoreboard. It first gives the cumulative number of Blue and Red weapons, aircraft, and people in all sectors at the start of ground combat. Variable CRGKBS(KRW,KBW) is the matrix indicating the cumulative Blue type-KBW weapons killed by Red type-KRW weapons in all sectors. Variable CRAKBS(KRA,KBW) is the cumulative number of Blue type-KBW weapons killed by Red type-KRA aircraft; and the subsequent two matrices give the analogous situation for Blue killing Red. The last four vectors indicate people lost by weapons and aircraft.
- (18) This is the air summary for day 2.
- (19) This is the ground summary for day 2. Notice that RF and RP were not called, and thus no outputting of inputs occurred between the air and ground summaries.

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92 IPRA(IL)							
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93 IPHB(II)							
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000-0			4010	0100	•016	000		000.0	4 (4		910		0.70 4			0000	00000	0.000		•	700	230	0000	026	1	00000	00000		0.000	2.000	0.000	00000	000	0.0		00000	730
			010	4010	010	610		00000	-		0 0		710	2000		298	974	108	270	000	חכת	020	039	000			0.000		.088	.070	108	270	W2W	000		0.10	020
000.0		9	0.53	4059	950	0000		105 -	0,50		2004			Tag.		0000	0000	162	401		n n n	0.000	0.000	000		2000	0.000		0.000	0.000	162	401	0 000		P	0	0000
000	0.000	(KHAM·KBW)	2000	.105	.105	*00.	-005	000-0	(KHAM*KB4)	*00*	*00.	•034	-005	0.000	N. A.	0000	0 000	00000	0.000	0.000	050	0 100	000.0	00000	050	00000	00000	7	0000000	0 000	0.000	0.000	00000		0.50	00000	000
0000	00000	3190 SARMAB (200	. 77B	.098	• 000	600-	0000-0	3195 SARHUH (.008	9000	.008	÷000·	000.0	BB	0000	781	0.000	00000	0000	090	009	060	000.0	000	00000	00000	3205 SAPEDBIR	0000	781	0.000	0000	00000	090	090	00000	400

			[]		ļ									1	1			1														
	108	4 6			-005	.010			0000	4015	.015	500				200	010	00000	6			4 (C00*	\$000	0.000		000	0	100	100	-		4015	4005	.001	800	0.000
	.037	H 6	000		-005	.020			2000	.040	.040	.010	010		070	5005	.020	.00		9 4	0 40		0 7 0 0	0100	.010		100	4	020	010		3	**	4200	.030	040	0.00
3	0 00 0	3	0		· 003	010			00000	0115	.015	050	6		200	5003	010	0.00	0		210		0504	050	00000		0		100	.00	7004	2104	4015	010	.001	100	0.00
1 1 2	0.000				-003	.010	0		000.0	.015	.015	. 050	0 10	3	00000	.003	010	00000			3		050	.050	00000		0		100		100		0115	010	1000		00000
3 1	0.74	0.000	0		.030	010	0		. 005	002	.200	10	e u			030	gent	900	4	9 6	200	N. P. S.	050	1050	.005			000	010	8	Enn.		002	0010	2104	910	0.00.0
t			0000		070.	00000	0.0		010	00000	0.000	1.5	- 14	96.4	2004	070	00000	,	£	1	2000	4	061.	150	,025		000		•	036	4	4	00000	00000	300	000	4 -1
	0.050	00000	00000	(KOAM, KRW)	.070	00000	0005	0.000	010	0	0.000	9 6	• 005	500.	0.000	(KHAM*KRW)	0.001		00000	00000	.010	010	.005	15	- 00	0.0.0	(2°KB#*KRW		000	.001	.001	020	00000	00000	.010	2000	000
3	90	0000	00000	3210 VBAMAR	.100	000	.005	0.000	\$200	70	.700	-010	.005	0000	0.000	3215 VEAMUR	100	500.	0.000	00000	.010	.010	.005	•250	.020	0.00-0	3220 VSWAHP	0.000	100	.001	100	.010	9000	000	.005	.001	0000

350	0000	020	100	100	040	
.001	0000	070	100	100	0.00	
300	250	500	100	001	010	
0000	0.000	200	015	015	400	
.020	0.000	200	.015	-015	400	
.020	0 000	100	010	010	200	
.010	300	210	-001	1000	0.00	
- 002	000	310	100	100	040	
001						•
0.000	0		200			
(Z*KB#*KRW)					,	
00000	00000	100	00000	00000	100	0000
00000	0.000	.020	.001	.001	.040	
.001	000	0.0			.020	
.001						
300	250	500	100	100	.010	
1000	0000	200	015	015	400	
.020						
00000	0000	200	-015	-015	004	
00000	0.000	100	.010	.010	-200	
.010	000	910	.00		050-	
. 002	-					
0.00	0.000	-015	.001	.001	0.00	
.000	500	000	00000	000	0000	0.00
0.000						
00000	0.000	001	00000	0.000	.001	0
0.000	0.000	020	.001	100	0.040	
.350	300	010	.001	.001	020	
- 001	250	200	100	.001	010	
.001						
00000	0.000	200	-015	-015	004	
.020				9.0	4	
0000	0.00	0070	6100	6100	0000	
0 000	0.000	100	010	010	-200	
.010	000	9,0	100	100	030	
0000	0000	2000	100	7004	200	
0.000	0,000	-015	.001	.001	040	
.001				6		•
0.000	0000	00000	00000	00000	00000	0000

70"	9	000	4005	00000	00000	ς	0.00
00000	0.00					1000	4040
0.0	020	.020	010	1001	100	200	.002
00	160.0	0.000	2100	010	010	020-	020
.005	. 005	7				4	4
150	100	2100	A 0.20	• 005	a 0.02	* 005	A 050
0	2						
070	2	030	.020	.001	.001	- 002	003
000	.001	000	800		0	<	
000-0	0.000	ul .		77777	00000	7000	
a.04	* 020	020	010	.001	4001	-002	.002
.003	000.0	0.000	0010	.010	.010	.020	.020
00	500.	1					1
- 2005	2000	0010	026.	250.	>60.	660.	0000
0.	(Z*KHW*KHW)						
4	2	00000	*302	00000	0.000	a 0 0 2	.002
0.000	00000	00000	.020	.001	160	.020	.020
-005	-005	0	011	0	[00]	<	000
- 000	-002	2	24.29	400	# K.7 #	ii.	30
.020	4.150	.150	2000	0.000	3.030	.010	.010
.001	100.	0000	0.0	010	0	350	28.0
.025	.025	4	777	0.10	ALUA .	755	76
4700	0.000	2-0-2	*250	020	.020	.450	400
. 700	0.000	0.000	.290	.010	4010	.300	300
. 020	.320						4
000	0.000	24.303	0000	0700	*010	00000	A 9 51 U
000	2000	20000	120	.001	100	.030	0.030
	500-0	0.0.0	0.000	000	0.000	00000	0.000
0000	00000	4					N 6
0000	0.000	0000	3000	0.000	0.000	368.	9884
	00000	0.000	.220	.001	.001	020-	020
-002	2000	400	010		100	020	020
2000	-005	255					4
a 020	150	001.	A005	000 0	0.000	010	010
.001	00000	9-0-6	200	.010	010	350	350
.025	. 025		ž.	4	ė .	Ĺ	1
.700	0.000	0.0.0	.250	*020	0.020	0500	400
.030	0.030	0.000	2000	010-	010	005	300
020	000	3	5	è.	4	5	>
.700	00	0000	200	010.	010	**00	004
• 020	060.	0	0.70			0.30	030
0000	2000	ě.	020	*00*	700	050	* 636
000-0	3-000	00000	00000	00000	0.000	00000	0.000
	0.000						

	020	020	.010	350	004	005	004		000		020	020	-010	980	004	> <	004	000	٠	00000	95	4		80	04		.20		.20		202		80	£ 0
*	.020	• 020	.010	350	0.450	300	400	0.00		000	020	.020	010	055		1 0	004	0.00	200	0000-0	6			0.	00-1	~	01.				60		00	.10
)))	100	.001	00000	010	020	010	010	.001	0000	000	100	.001	000000	010	000	010	9.0			00000	-			20.	0.5	20		9	200		10		20	. 0.3
3 6	100	1001	00000	010	0200	010-	010	100	000-0		100	.001	00000	010	98.0	010	9 6			00000				30	04	200	00	40	20		10		90	CV.
5 (5 (9)	020	010	200	200	250	200	200	020	000		020	010	200	000	9	200	000	e c	170	00000	6			0	7.0	0.5	80	ď	9		0.3		00	2.4
	000	300	,150	0.000			0	0	b		0.0.0	300	.150	0.000		•	900			00000	000				611.0		90	0.7	0.50		00.0	•	0.1	. 0.1
00000	2000	. 350	150	00000	0.000	0.000	0.000	0.000	- 005	0000	0.000	. 002	- 150	-001	. 025	0.30	.020	050	-092	00000	(KGAMIKHW)	.02	50.	500	40	.50	0	.30	0.00	.30	(KHAM,KB#)	- 02	.05	Cv.
00000	-005	0000	• 020	-001	.025	.030	.020	.020	-005	0.00	0.000	-002	.002	.001	.025	030	.020	.020	-005	00000	2	0.01	200	50.	50.5	200	200	-20	0 0	• 20	MKAB		1.00	2.00

	20.	.05						
	5.00	405	00 0	.70	4.40	.30	1.00	440
	2.00	0 C	,20	1.50	.40	0.40	430	.50
	04.	.30						
3250	DAMMLA	(KOA, KBAM)	00.1	0	0.00	00	00.0	00.0
	00.0		61			4		
	2.00	N N N	00.00	1.33	1.33	00.00	1.33	0 0 0
	1.00	1.00	2,00	190	00.0	19*	00-0	.33
	00.00	0.00	4.00	1,33	0000	1,33	2.67	00.00
	00.0	i						
251	A	(KBATKBAM)				П	1	1
	0	050	1.00	0000	0000	0000	0000	0000
	2,00	.33	6,00	1,33	1,33	0000	1,33	00.0
	0.0	1.00	2.00	190	0000	190	00.0	,33
	0							
	0	No D D	2000		2000			7.000
255	RAMNLA	(KHABKRAM)	1		1 9			
	0000	0000	2	000	0000			
	2.00	1.00	50	0,00	0.00			
256	RAMNLD	(KMA, KRAM)						
	00.00	00.0	00.0	00.0	00.0			
	2.00	1.00	.50	00.0	00.0			
260	000000	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX						
)	0000	D o O	0000	1.00	32.00	32.00	4.00	00.00
	32.00	32.00	00	3	4	00	1.00	00.0
	4.00	4.00	4 .		4			
	00.0	0 . 0 0	2,00	1.00	00-9	6.00	1,00	00.0
	00.00	00.00	2,00	1.00	6.00	6.00	1,000	00.00
	00.9	6.00	-	00.0	0.00	0	00.0	0000
	000	00.00	4		0	0	6	0
	00.0	00.0	4	0	4	4		
	0000	0000	0770	00.0	0000	00-0	0000	00.00
	0000	00.0	00.0	00.0	32.00	32.00	00.00	00.0
	32.00	32.00	00-0	00.00	0.00	0.00	00.00	00.0
	000	00.00		•	0.00	00	0 0	00-0
	90	00.0	4	4	4	4		
261	RWGPG	(KKHW·KRW)	4	00 1	32.00	32.00	4.00	32.00
	32.00	32.00			t: -	١.)
	0000	00-0	1.00	25	00.4	4.00	1.00	A.00
	00.0	000	2.00	1.00	6009	6.00	1.00	6000
	4.00							

320000000000000000000000000000000000000		000	0	0	•	0	0
32.00		0000	0000	000	00.00	Nº NO	0000
32.00		07.0	00.0	00.0	00.0	00.0	00.00
32.00							
0.0		0000	00.0	32-00	32.00	0000	32.00
0.00		00.0	0.00	0000	00.00	00.0	00.0
0	00.00	000	0	0	0	0	0
0.00				200	200		200
0.00	0	00.0	00.0	00.0	00.0	00.0	00.00
00.00	00.00						
3265 BALE	8ALBU (KBU) 40	0 \$	0.4				
3266 BALH	BALRU(KRU)						
	05.	000	.50				
270 PNBC	PNBD (KRU) 1,00	1.00	1.00				
280 PNR	(KRU)						
1.00	1.00	1.00	1.00				
290 BCWI	BCWI (KBW)						•
0	0	•			0		5
300 RCWI (KR	(KRM)	-	-				
0				9			
301 LVB*		6		6	6	000	9.3
070	000 0 020	700	NCC.	000	A D D		ní
302 LVB#D	KEA)						
.070	0.000	2005	1350	\$700	008.	0000	0400
3303 LVBA	LVBAA(KBA)	1.200	1.200				
3304 LVBA	LVBAD(KBA)	1,205	1,200				
3305 LVR#	A (KHM	009	1200	*700	008*	.700	.010
	0 • 0 0 0						
3306 LVR) (KRW)	500	200	200	800	.700	010
.010	0.000						
3307 LVRA	LVRAA(KRA) .500	200					
3308 LVRA	DIKHAL						
	.500	.500					
3310 PBCS	PBCSSD (KBD)						

1224 PAPESONIKADI

D	(KODOKPOKT)						
	1.00	1.00					
	1.00	1.00			٠,		
	1.00	1.00					
	1.00	1.00					
	1.00	1.00					
	1.00	1.00					
	1.00	1.00					
	1.00	1.00					
(K	U.KP.KT)						
	1.00	1.00					
	1.00	1.00					
	1.00	000					
	1.00	1.00					
	000	1.00					
	1.00	1.00					
	1.00	3.00					
	1.00	3.00					
1,000	000	1,000					
MMFAS(1)							
	10.0	10.0	10.0	10.0	10.0	10.0	
5	10.0	10.9	10.0	10.0	10.0	10.0	
X PA	01,48	1650.	.0103	.0165	.0023	.0158	.0019
(8 % 8)							
n i	0730	.0575	6950.	.0172	.0031	.0062	.0038
CKB	MIKEWAKRAMI						
	1.00	1.00	1.00	1.00			
	5.00	100 .	5.00	5.00			
	50.00	50.00	50.00	50.00			
	50.00	20.00	50.00	80.00			
	2.00	2.00	2.00	2.00			
	50.00	80 00	000	000			

2.00		00	c	0000			
2 52	5.00	5.00	5.00	5.00			
9	\$ a 0.0	7	4.00	4.00			
50.09	20.00	50.00	50.00	20.00			
	50.00	0 0	50.10	50.00			
000	2.00	2.00	000	2.00			
50.00	50.00	50.00	50.00	50.00			
- 41	KHENDE						
00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
-00							
00.00	20.00	20.00	20.00	20.00	20.00	20.00	20.0
0	5.00	5.30	5.00	5.00	5.00	5.00	5.0
0	5.00				1		
000	00.4	4.00	4.30	4.00	4.00	4.00	4.0
50.00	50.90	50.30	90.05	26.00	50.00	50.00	50.0
0	20.00						
00.00	0000	20-00	20.00	50.0v	20.00	20.00	50.0
0	2.00	2.03	2.00	2.90	2.00	2.00	2.0
0	2.36			1			
00	2.00	5.00	2.00	5.00	5.00	2.00	8.0
50.00	56.00	50.00	50.00	50.00	50.00	20.00	50.0
3	50.00						
0.00	50.00	20.00	20.00	20.00	00.05	20.00	20.0
1387	MPWLUW (KSW. R9W)						
.00	1.30	1.00	1.00	1.00	1.00	1.00	1.0
000	50.00	20.00	20.00	20.00	20.00	40.00	20.0
000		5.00	5.00	5.00	5.00	5.00	5.0
00	5-00						- 1
000	06.4	4.30	4.90	4.00	4.00	4.00	4.0
00	50.00	50.00	50.00	20.00	50.00	20.00	50.0
	9 0	50.00	50.00	50.00	50.00	50.00	50.0
0							
2.00	2.00	2.30	5.09	2.00	2.00	2.00	2.0
3	2.00	2.00	2.00	2.30	2.00	2.00	2.0
	2.00						
50.00	56.00	50.00	20.00	20.00	20.00	20.00	20.0
50.00 50.00	54.00	20.00	20.00	80.00	50.00	20.00	50.0
AMA	APRI AM CKAR . KRA4						
00	1.09	1.00	1.30	1.00	1.00	1.00	1.0
000			20.00	20.00	20.00	20.00	20.0
00	•	•	-	•	•		•
5.00	2.00	2.00	2.10	2.00	2.00	5.00	5.0

0000	2000			2			
00.00	(0	0	0	0	0	
0000	00.00	20.00	20.30	20.00	00.00	00.00	20.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
000	50.00	50.00	50.00	20.00	50.00	50.00	50.00
000	20.00	20.00	50.00	20.00	20.00	20.00	50.00
50.00	50.00	50.00	50.00	20.00	50.00	20.00	50.00
RPWLOM	MIKHWOKBAMI						
	1.0	1.00	1.00	1.00	1.00	1.00	1.00
20.00	211.90	20.00	20.00	20.00	20.00	20.00	20.00
5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
00.4	**00	4.00	4.07	4.00	4.00	4.00	4.00
00.0	50.00	20.00	50.00	80.00	50.00	20.00	20.00
0000	56.00	50.00	50.00	80.00	50.00	20.00	50.00
2000	2.00	2.00	2.00	2.00	2.00	2.00	2.00
000	50.00	50.00	20.00	50.00	50.00	20.00	50.00
00.00	50.00	50.00	50.00	20.00	50.00	20.00	50.00
50.00	50.00	50.00	20.00	20.00	50.00	20.00	20.00
20	(KHW·KHW)						
1.00	1.90	1.00	1.00	1.00	1.00	1.00	1.00
20.00	20.00	20.00	20.00	20.00	20.00	00.02	20.00
5.00	5.00	5.03	5.00	5.00	5.00	5.00	5.00
4.00	6.90	4.00	4.00	4.00	00.4	00.4	4.00
0.00	50.00	50.00	50.10	50.00	50.00	20.00	50.00
00.00	50.00	50.30	20.05	50.00	20.00	20.00	50.00
2.00	2.00	2.30	2.00	2.00	2.10	2.00	2.00
50.00	50.00	50.00	50.30	50.0P	50.00	50.00	50.00
0.00	50.00	50-00	50.00	20.00	20.00	20.00	20.00
50.00	50.00	50.00	50.00	\$0.0u	20.00	20.00	20.00
RPALDWIK	N N					- 1	
1.00	1.90	1.00	1.00	1.00	1.00	1.00	1.00
20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
5.00	00.0	2.00	5.90	5.00	5.00	5.00	5.00
00.4	4.00	4.09	4.50	00.4	4.00	4.00	4.00

2000 2000 2000 2000 2000 2000 2000 200	0000							
N W	00.00	20.00	20.00	20.00	20.00	20.00	20.00	50.00
N. W	000	2.00	2.00	2.00	2.00	2.00	2.00	2.00
20	00.00	50.00	50.00	50.00	50.00	50.00	20.00	50.00
S.	000	50.00	50.03	20.00	20.00	20.00	50.00	50.00
IL IU IU	50.00	50.00	50.00	50.00	50.00	59.00	50.00	50.00
3450	BCRPR (KHP)	, P.)						
	.01	16.	.03					
3460	ACRPH (KMP	(4)	10.					
3470	BCRWR (KHW)	(#)						
	0.00	00.00	00.0	00.0	0.00	00°0	00.0	0.0
3480	ACREH (KKE	- m						
	00.00	00.00	0.00	00.00	00.0	00.0	0000	0.0
2630	HCBSB7							
	.01							
3540	RCRSPZ							
4	100070							
1	.01							
3560	ACRRP 2							
	0000	1						
0765	0 00 0	1 .	00.00	0.00	0.00	00.00	0.00	0.0
	00.00	00.0						
3580	7	(KKW)			- 1	1	1	
	00.00	00.0	0.00	0.00	00.0	0.00	00.0	0.0
3600	HCRPH (KBP	1P.)						
	0	*0*	40°					
3610	BCRP2 (KBP	A.						
	40	40.	40.	40.				
	40	(P)	40	0.04				
3620	BCR#H (KB#)						- 1	
	0.00	00000	00.0	0.00	00.0	00.0	0000	0.0
3630	HCRAP (KBW+ KP)	HWO KP)						
	00.00	0000	00.00	0000				
	000	00.0	00.00	00.0				
	0.00	0.00	00.0	00.0				

00.0	0.00	00.00	0.00				
00.00	0.00	00.00	0000				
RCRPH (KHP	(4)						
.04	*0.	*0.					
RPP (K	RP.KP)						
.0.	*0.	* D *	*0*				
000	*0*	40	*0				
HCRAP (K)	14)						
0.00	00000	00.0	00.0	00.0	00.0	00.0	00.00
MCREP (XX	5						
0000	0	0.00	00.0				
0000	000	00 00	0000				
00.00	00.0	00.00	00 0				
00.0	0.00	0000	00.00				
000	000		0000				
0000	0000	000	0000				
00.0	00.00	00.0	0.00				
00 0	0000	000	0 0				
HANSUA LAND	(90)						
.80	• 90	. 80	• 80				
EMSOU (KAD	(40)	.73	.73				
HARSOA KHU	לאט						
.80	. 30	06.	. 80				
RMRSUD (KHD)	(HD)	73	.73				
-76	.76	.76	.76				
PSB*UU(Kd	(40)	26.	59.				
PSR#UAC	(אין)						
.76	.75	.75	.76				
PSRWDD (KMD	cHD)	59.	.63				
FRRWAN 1.00							
FRRWAN							
MUMOUS							
1.00							
FRB#UN							
1.00							

1714 HFWFSDC.19KP1

																	.10		.10							.01	10*	1.00	1.00		1.00
																	.10		.10							.01	10	1.00	1.00		1.00
																	.10		01.							.01	.01	1.00	1.00		1.00
3.00	3.00	3.00	3.00	000	,	3.00	000	3.00	3.50	3.00	10						01.		· 1 o			97.0		40		.01	.01	1.90	1.00		1.00
3.00	3.00	34:10	3.00	3.00		3-00	3.00	3.00	3.00	3.00	01.	01.		40.		3	010		01.		98.	97.	95	77		.01	10.	1.00	1.00		1.00
3,00	3.00	3.00	3.00	3.00	(J.KP)	3000	3.00			3.00	4A)	0	-	.00	A)	0	.10		00		.36	496	.36			.01	01	1.00	1.00		1.00
3.00	3.00	3.00	3.00	3.00	or S	3.00	3000	3.00	3.00	3.00	3720 FBACSIIKGAD	3721 FRACSI INMA	3776 JOI JACK	4	3726 ASLUACING		37.30 651 WWY (RAW)	070	10	3750 BSRASILK	.30	3751 RSBASI(Ke	3752 BSRASHIKHAL	3753 AS6ASR(AD	375E PSINIS(1)	.01	3756 PSUBIS(J)	3760 FFRMS(J)	3770 FFRHS(J)	3780 FFRHDS(J)	

	-10.00 1	-10.00 10.00 10.00 10.00 317.00 327.00 477.00 10.00 10.00 477.00 467.00 467.00 467.00 467.00	10.00 10.00 10.00 11.00 10	-10.00 1	10.00 10.00 10.00 17.00 17.00 10	-10.00 -10.00 -10.00 -17.00 -10.00	10.00 10.00 10.00 17.00 17.00 10	10.00 10	-10.00 -10.00 -10.00 -17.00 -10.00		

Anin nlampz.ulampz

* 050	0.00 0.00	0.00	70.0	00.0	0.00	0.50	00.0	0.00
4030	DIBR#Z(K 0.00 0.00	0000	000	00 0	00 0	0 0	0000	000
4040	UARRWZ(K 0.00	00°0	0000	0.00	0.00	0.00	0.20	00.00
4050	DIRHWZ(K)	00°0 0°00 0°00	0.00	0.30	0.00	0.00	0.00	0.00
4060	20000.00	DAKG52						
4070	DIBGSZ.UIRGSZ 0.00 0.0	0.00						
4080	UARSAM. UARSAM	JAKSAM						
0		2						
5	00.0	3						
2000	INGFCH	IMGFCR						
5010	BRPF. HRPF	.03						
5020	EBROU (LE	Ed)	35	1.00				
5030	ERRDULLER.	. B.0	24.	I.no				
5040	PBWKKK (K	(KdW)	00.00	00.00	00-0	0000	00.0	00.0
	00.0							
5050	PH#HHH 0.00 0.00	(KHW) 0.00 0.00	00.0	0,10	00 0	00.0	00.00	00.0
5060	PHWLPH(K 0.00 0.00	00.00	00.0	00.00	0.00	00.00	00.0	00.0
5070	PRWLHIKHW 0.00	- 9	00.0	00.00	00.0	00.0	00.0	00.0
	0.00	0						
5080		KBW·KP)	00.0	000				
	00.00	0000	9000	000				
	000	00.0	000	000				
	000	0	017					

. 0	0000	0		0	9 0	000	20	0	0	0	00.00	9	0	1	0	0.0	2	0	0000	0	0.0	0		0.00		- 4	00.0	4	8 1	0 0	- +		00.00		1.00	6.00		1.00			20	.20	.20
	000	2		0	3 3	2 :	90	3	3	3	0.00	9	0		2	0:	0	0	000	0	0.0	0		0.00		4	00.0	4			- +	2	00.9		1.00	6.00		1,00			5	.20	06.
. 0	00.0	0	O.		9 9		0	0		- 4	00.0	4		S	9	0.	0	. 0	06.0	0	0.0	0	0		0.	- 4	0000	4	8 1	0 0		0	6.00	â	1.00	6,00			MEMF RO 1.00	MHBF HD 1.00	201	(KMU)	80)
0	0000		100 130	0 00	3 9		20	0	0	0	00.0	9	0	RHLFE	0	0	0	0	0000	0	0.0	0	RWLWD	00*	0	0	00.00	99	0 0		9	0	FRBAP (K	FRBDP (K	1.00	FRRAP (K	ar arrang	1.00	MBRF HA.	1.00	BRRAUCK	SERAD (K	BRRDU(K
			0000	0						i				6000									6010	,									6030	6040		6050	4040	bi .	6070	6080	0609	6091	7000

1007	.20	.20	.20	.20				
7010	BPCRPS(NBP)	40°	*0					
7020	RPCRPS (KHP)	НР						
	.04	+0.	+0+					
7030					4	0	0	0
	00.0	0.00	0000	000	000			
7040		(HH)						
	0.00	00.00	00.0	00.0	0000	00.0	00.0	00.0
7050	BPCKP4 (KdP)	(db)	40					
6	24 24 24 24 24 24 24 24 24 24 24 24 24 2							
	*0.	*6.	104					
7070	BPCK#H(KUW)	(MA)						0
	00.0	00.0	0000	00.40	00 = 0	20.0	00.40	0000
7080		(MM)						
	0000	00.0	00.0	00.0	0000	0.00	00 0	000
7090	20	PCRSP	-					
0012	GXXCTAX GAGCOA	ox ac						
		*U.						
7110	BPCHH (Kdm)		1000.00			4		0
	00.0	00.0	70.00	0	***			
7120		(, , , , , , , , , , , , , , , , , , ,	04.0	6	0	0	0	00.0
	00.0	0000						
130	7130 PBNCAP(KP)	0100.	0100	.0020				
135	PBNCUP (K	(4)					L	
	.0010	.0010	.0010	.0020				
7140	PBNCH, PBNCZ	A0010						
145	PRNCAP CA	(P)						
	.0010	.0010	.0010	0200.				
7150	PRNCUP (KP)	0.000	0100	0200				
1155	PRNCR - PRNCZ	2MCZ						
	.0010	. 0010						

A-34

	0100							
8000	NARF							
	0							
8005	BAEFX(1	HAEF)	0 8 8	, 83	181	26	*6*	69.
6010	200	(KOU . I DAEF)						
	00.0	.15	54.	.61	.77	26.	96.	1.00
	0000	~ •	100	90 4	477	292	96	9
	0000	010		19.	.77	26.	988	1.00
8015	NBDEF							
	30							
8020	BDEFX (It	SUEF						
	\$9.	190	.70	13	.76	-82	26	98
8025		IKAU I LADEF 1						
		• 1 •	.30	99.	.56	.74	46.	1.00
	0.00	• 1 6	.30	**	.56	.74	.94	10
	00.0	+14	0.30	40	456	+74	*6*	(C)
8030	NRAEF							
8035	MAFFXI	(THAFF)						
	16	,77°	000	.43	.87	26*	*6*	86.
8040	RAEFYIK	(KMU . IMAEF)						
	00.00	910	30 U	.63	.77	20.0	96.	1.00
	00.0	116	45	19	.77	-92	96	(C)
	000	-4	15	40	.77	26	96	C
8045	NROEF							
	С							
8050	HDFFX(1	(INUEF)	.70	.73	7.6	82	-92	9.6
8055	RDEFY (KRU)	HU. INDEF						
	00.0	•	30	77.	. 56	.74	96.	1.00
	0000	41.	30	7,7	48.4	74	40	90
	0000		030		156	27.0	464	1.00
8060	NPCHAF							
	20							
8065	PCBAFK(I	IPCHAFI	0.0	0	6	4	4	20.00
1)	2000			4			
1.	0000	.0120	.0100	0900.	.0050	.0040	.0030	.0030
-	0000	0000	. 7 . 0					
	nnnn	0.05.30	1010	00130	0600	*0080	0700 a	0000

8085 PCHUFY!							
40000	50	1.00	2,00	3.00	4.00	00.0	20.00
0.0000	PCHUFY (KP · IPCBUE)						
0.0000	0400.	00000	0700.	0600.	.0120	.0180	.0300
0.0000	0000	0	010-	0100	0000	0360	0000
	0.000	05000	-0200	0000	0210	0010	.0300
BOBS NPCHHE							
BOBT PCBHFX	PCBHFX (IPCBHF)						
0000	10.00						
BOBB PCHMFY (INCOMF)	INCHAFI						
.0050	0500.						
8090 NPCHAF							
BOSS PCRAFX (IMCRAF)	IMCRAFI						
1	.50	1.00	2.09	3.00	4.00	6.00	20.00
PCRAF	Y (KP · IPCRAF)	0	4	o u	4	0.500	66
	.0230	0160	0130	0000	0000	0000	0.0070
1-0000	0900	0500	00000	. 0025	02000	.0015	.0015
1.0000	.0150	.0100	.0360	05000	.9040	.0030	.0030
8105 NPCHUF							
8110 PCKUFALIPCKUFI	I PCKUE 1				-	- 1	
00.0	•50	1.30	2.00	3.00	4.00	00.9	20.00
PCHDFY	U.						
. 39	0400	0020	0700	0600	0710	0110	0000
00000	0100	.0169	.6140	0220	0270	0350	.0500
	. 0040	.00050	.0770	.0090	.0120	.0190	.0300
BII6 NPCHMF							
8117 PCRHEX (IPCHHE)	IPCHHE1 16.00						
8119 PCRMFY(IPCHHF)						
RIZO NAFME							
BIZS BEMEX (IBEME)	HEMF)	u u	0	6	4	V	200
		7					
BI30 HEMFY (KP	P.KT. IHFWF 1	13,35	17.70	25.74	25.74	27,35	40.00
00.0	3.86	ະທີ	ග	15.29	15.29	16.89	30.00
00.0	1.12	2.25	3 . 37	5.63	5.63	6.43	20.00

00.0	00.0	• 1 8	1.12	2.73	3.70	40.4	15.00
- 66	0.00	60*	494	1.64	2,17	2,57	10.00
. 0	16.74	26.70	35.40	51.48	51.48	54.70	80.00
	7.72	7	40	30 . SB	30.58	33.7B	60.00
	2.24	4.50	6.74	11.26	11.26	12.86	40.00
	1 -	6.67	800	12.87	12.87	13.67	20.00
	0	2.97	4.02	7.64	7.64	8.44	18.00
00.0		1.12	1.68	2.81	2.81	3.21	10.00
8135 NAFMF							
30							
8140 RFMFX	(IRFMF)						
00.00	1.00	1.50	2.00	3.00	4.00	5.00	20.00
> G	NO. THEORY						
0-00		J	17.70	25.74	25.74	10	40.00
0000	3.86		- 60	15.29	15.29	16.89	30.00
0.00	1-12	2.25	3.37	5.63	5.63	6.43	20.00
00.0	00.0	129	2409	4.34	5414	6.27	20.00
00.00	00.0	•18	1.12	2.73	3.70	4.34	15.00
00 40	q	60.	494	1064	2,17	2,57	10.00
0 • 0 0	16.74	26.70	35.40	51.48	51.48	54.70	80.00
0000	7,72	11.90	16010	30.58	30.58	33 . 7B	60.00
00.0	2.24	4.50	6.74	11.26	11.26	12.86	40.00
0000	4.18	2000	B 6 B 5	12.87	12.87	13.57	20.00
0000	D 1	2.4	4.02	40.0	400	0000	15.00
200							
2							
8155 SEFBFX 0.00	((15EFBF)						
RIAN SEFMEY	V. I.SEFHF.						
0.00	1.0						
A 4 A 4.00 C							
8165 NSEFHF							
EFR	X (I SEF HF)						
00.0	3.00						
8175 SEFREY	Y(ISEFAF)						
NO COCK ONLIN							
8200 IDEAF	, IDAAF						
-							
A201 ISMAAF	SMAAF. TASMAF						
	-						
	P A CALA						
8202 IGNAAF	, I AGNAF						
2.0	W 2						
INSAL	I SACTORIA						
8205 IRBAF ((KBA)	WT	M [*]				

BONK TOHADIKHAI

in a	ur.						00000	0.000	0.00.0	1,000	0.00.0	00000	00000				₩				.100		
•	m	4	•		m		004.	148	0.00.0	306	.102	0000	**0*	1338	,125	0.000	.375	125	0.000	038	.100	100	
	8207 IRBAZ (KBA)	8210 IRRAF (KRA)	8211 IRRAR(KRA)	8212 IRRAZIKRAI		6214 IBAFCR. IMAFCR	8215 PBA1 (KBA)	8215 PBA2(KBA)	8217 PBA3(KHA) •500 0•000	8219 PBA4 (KBA) 0.000 306	8219 PHAS (KBA) .102	8220 PBA6(KBA)	0.000 .044	8221 PRAI (KRA)	8222 PRAZ (KRA) 0,000 ,125	8223 PRA3 (KRA)	8224 PRA4(KRA) 0.000 .375	8225 PRAS(KRA) 0.000 .125	8226 PRAS (KRA)	8228 PRA7 (KRA)	8230 PBACS(KBA) 0.000	8231 PRACS(KRA)	PRAAS (KBA)

001°		100																				
300	,100	100	.100																			
00000 100	8233 PRAAS(KRA) 0.000 .100	8229 FBAISRIKHA)	8234 FRAISR(KMA)	8235 BDED(L)	8236 BDDEC(L)	8237 BDDEF(L) .0002 .0003	8239 BDDEH(L)	8240 BODEZ(L) 0005	8330 BDDAC(L) .0001	8331 BDDAF (L) .0003	8332 BDDAMIL) 0003 ,0004	8333 BDDAZ(L) 0.0000 .0005	8238 BUAD(L)	8334 BDSC(L) .0002 .0004	8335 805F(L)	8336 BDSR(L) .0006	8337 8052(L) 0.0000	8338 BDGC(L.)	8339 8DGF(L) 	8340 BUGR(L) .0004	6341 80 ⁶ Z(L)	A241 ADSS.ANGG

#245 #045 * 6004 #243 #0504 #244 #0002 #245 #005 * 0004 #244 #005 * 0003 #245 #005 * 0003 #245 #005 * 0003 #245 #005 * 0003 #245 #005 * 0003 #344 #004 * 0004 #345 #052 * 1 #345 #052 * 1 #346 #052 * 1 #346 #052 * 1 #346 #052 * 1 #346 #052 * 0004 #352 #064 * 0004 #352 #064 * 0004 #352 #064 * 0004 #352 #064 * 0004 #353 #065 * 1 #365 #055 * 8004 #366 #045 * 8004 #366 #045 * 8004 #366 #045 * 8004 #366 #045 * 8004 #366 #045 * 8004 #366 #045 * 8004 #366 #045 * 8004 #366 #045 * 8004 #366 #045 * 8004
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																			.200	.100		*90*	.272		 	0		0.20	0600		.045	0	• 0 4 5	- 4	000	0.00		.200	001.
00000	9	.010		.075	075	075		126	125	.125	125		0.000	075	.016	002°	100		.200	100	- 14	.030	127		. 0 S &	0		050	0.00		.045	2	• 0 • 2		0.00	058	,	.200	.100
0.000	.04	.016	(KBA•KRA)	075	0.75	075	KBA.KBA1		+125	-	•125	KBA . KRA]	00000	0.023	.016	.200	RA) .100	(BA)	.200	KBA)	6	.025	KBA) 100	RAPKB	• • • • • • • • • • • • • • • • • • •	. 058	KRA, KBA)	020	0.050	KRA, KBA)	.04	A 1145	• 045	-	0.00	. 058		0 300	. 100
00000	9	.010	8256 BKDE (075	075	075	The State of	126	125	.125	125	1007	0.000	8 0 Z 3	010	8259 BKS (KRA.	100	8261 BKSS(K)	.20	8262 BKGG(P	465	00000	8264 BKAN(T	8265 RKEDIKE	0.00	.058	1000	050	0000	-	.045	045	.045	AD	0.00	058	2	. 20	8270 HKG (KBJ

8272	D.OOO	000		
2179		*100	*100	
8273	0.000	290.	.023	
8274	0.000	1 263	960	
8275	0.00 S	5.00	2.00	
8276	RSFBAK	(KBA)	50	05
8277		RASAG • 50		
8278	PBAAGM(KHA)	8A) Z 00	2,00	2,00
8279	2.00 Z	AA1	2.00	
8280	20.00 20.0	ACA55		
8281	20.00 20.0	20.00		
8282	2.00 Z.0	MSPSC 2.00		
8283	2-00 2-0	MSP5A		
8284	WFCBSN. MFCRSN	FCRSN 10		
AZAS	POBANG (KHA)	.15	51.	21.
8286	PDRANG (KMA	44)	15	
8288	1.00 1.0	MBERA 1.00		
8289	1.00 1.0	1.00		
8290	- 1	H.IKI		
	00.00	. 33	0.00	
8291		MaIB)		
	1.00	0.00		
	00.0	1.00		

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8295 BSCA (KBA)	- 1	0000	4 4 6 6				
00.0	00.4	00.4	00.0				
8296 RSCA(KRA)	000	00 4					
8298 BAAHNS HAABNS	SABNS						
2.000	5.000						
8299 PARSUN, PARSUB	ARSUB						
8300 FPBS (IFPMS)	166.00	199.00	233.00	266.00	299.00	333.00	366.00
309.00	433,00						
6301 FPRS (IFPRS) -67.00 -101 -334.00 -357	-101.00 -357.00	-134.00	-167.00	-201.00	-234.00	-267,00	-301.00
8305 DSB.UFRB.URHB.OZH 100.00 100.00	100.00	100.00	100.00				
8306 USH UFHW URHR DZ	100.00	100.00	100.00				
8310 SRB1 (KRA)			1 1 1				
1.000 1.000	1.000	0000-2	0000-1				
8312 SHB3 (KHA)		1.000	1.000				
8313 SRB4 (KRA	1.000	1.500	1.500				
8314 SHB5(KBA)	1.000	1,500	1,000				
8315 SHB6(KBA 2:000	1.000	1.000	1.000				
8322 SRB7(KBA)	1.000	1,500	1.000				
8316 SRH1(KHA)	2.500	3.000					
1.000	2.000	2,500					
8319 SHR3(KRA)	1,000	1.000					
8319 SHR4(KHA)	1.500	2.500					
8320 SARS (KAA)	2.000	2,500					
8321 SRR6 (SRA)	1.000	1,000					

1	1000	00000	nine v	
167	8325 KHASIKBA)	3A) 1	8	2
1	8326 KHAS(KRA)	2A)	7	
9	8370 FFBARMIRDA1	.100	.100	.100
5	FFBEKH	8371 FFBERH-FFBUKH -050 0-000		
72	8372 FFRAKH (KHA)	.100	•100	
9	8373 FFREKH.FFRUKH	FRUKH		

100.00 0.00	SBR([8)									
1 00.00	A (1)	r.								
100.00 10	9	0.00	0.00	0.00	0.00	00.00	00 0			
100,00	ISMA(J)	-	0		0	guin				
100.00 100.00 100.00 100.00 120.00 120.00 100.00 100.00 100.00 100.00 120.00 100.00 100.00 100.00 120.00 100.00 1	3	m	m		~	-				
3 3 2 2 2 1 1 1 1 1 1 1	RNR (J)		0	į.	0	-	ø		4	
100,00 90,00 110,00 60,00 90,00 120,00 120,00 100,	KTERNB(J)	ı —	ı m	. ~	. ~					
100.00	KPRA (J) 2	2	2	2	~	N	2			
100.00 90.00 110.00 90.00 120.	7	-	-	2	1	-	pred			
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1.00 100.00 90.00 110.00 60.00 80.00 120.00 120.00 1.00 1.00 1.00 1.00 1		9	90.00	110.00		80.00	120.00			
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(12) 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,0	0.0	00.00	0.00	0000	0.00	00.0	00.00			
**************************************	EDGEL (J)									
(2) KB#*KR#!) 0.01 0.010 0.0100 .002 0.000 0.000 0.002 0.000 0.000 0.051 0.000 0.000 0.002 0.000 0.000 0.002 0.000 0.13 0.010 0.000 0.000 0.000 0.000 0.003 0.000 0.050 0.000 0.000 0.004 0.004 0.001 0.004 0.002 254 0.000 0.000 0.004 0.004 0.005 0.005 0.000 271 0.020 0.000 0.004 0.005 0.005 0.000 272 0.020 0.000 0.004 0.005 0.005 0.000	0000	000 0		1.00	1.00	000	1.00			
0.000 0.000 0.000 0.000 0.000 0.002 0.000	(21KB	R#1	000	000	0	000	000	000.0	0.00	0.0
.053 .054 .001 0.000 0.000 .002 0.000 0.00	}	0.000	00000	500	0.000	0.000	.002	00000	0.000	0.000
0.050 .134 .010 0.000 0.000 .003 0.000 0.0		.053	• 056	100	00000	00000	-002	00000	00000	00000
0.000 0.000 0.004 0.004 0.004 0.005		• 050	.134	000.	00000	0.000	.003	0.000	0.000	0.000
0 000 0 000 0 000 0 000 0 000 0 000 0 000 0	1	0.000	00000	*000	4000	.000	4000	.002	.001	.002
		0.000	0 000	200	0000	0000	000	0000	0000	0000

003	0000	000000	0000	00000	0000	000	00000	0000	0
	.053	066	001	0000	00000	0	00	0000	
	0000	00000	0 0	900	0000	1000	0 0	000	
	00000	00000	*00*	*00*	.001	0	00	0	6 0
	00000	00000	005	00000	00000	005	0	9	- 4
	0000	1000	0000	0000	0000	00	00	000	000
	00000	00000	00000	00000	00000	00000	00	0	00000
BR	BOKRP (2, KB#, KR#)								
	00000	00000	000	00000	0.000	000	00000	C	
	00000	0000	200	0000	000	2000	0000	0000	000
	080	134	000	0000	0000	.003	0000	20	
	0 000		400	000	001	000	005	100	
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	0000	0000	005	0000	0000	500	0000	0000	
	100.0	1000	0000	0000	000	0000	0000	000	
	00000	00000	0000	00000	00000	00000	00000	00000	
	0.000	0000	000	00000	00000	000	00000	00000	
	0.000	00000	2000	0000	000	0000	000	000	00
	050	134	000	00000	00000	003	00000	00000	
	0.000	000.0	000	000	100	*00	-002	1000	9
	0.000	00000	+00.	+00-	.001	*000	- 005	.001	•
	00000	0000	4000	00000	00000	000	000000	00000	0
	1000	2000	2000	000000	00000	2000	00000	0000	0
000	0.000	0.000	0.0000	0.000	00000	0.000	000-0	00000	0.0
KRW	PRAKBP (2+KR*+KB*)	000	000	000	000	000	000	0.000	0
	0.00	00000	001	00000	0.000	.001	-002	0.000	0.0
	*057	040	100.	00000	00000	1000	00000	00000	0.0
	-014	•000	.001	0.000	00000	.001	00000	00000	0
	000	00000	800	2000	0000	400		2000	
	00000	0000	300	000	00000	900	00000	0000	0
	00000	00000	+00-	-005	000.	+00.	00000	.001	٠
	0.000	0.000	100	00000	00000	100	500	00000	
	00000	0000	0000	000	0000	0000	0000	00000	000
	0.000	0.000	.001	00000	0.000	.001	.002	0.000	0.0
	*057	940.	1000	00000	00000	.001	00000	0.000	000
	.014	• 060	.001	000.0	0.000	.001	00000	0.000	0000
	00000	00000	9000	2000	0000	400	00000	2000	
		0000	800	00000	0000	900	0000	00000	0
.420	0.00.0	0.00	+00.	-005	0000	+000	00000	.001	٠
	0.000	0.000	100	0.000	00000	.001	9	00000	0.0
0	000.0	000-0	00000	00000	00000	00000	0.000	00000	0
(2 * KR# *	KBW)	000.0	000	00000	00000	000	000	0.000	O
	2 0	000	00	00000	00000	.001	-005	00000	0.0
021	.057	0000	100	00000	00000	.001	00000	00000	0
	.014	.060	.001	0.000	0.000	.001	00000	0.000	0
	00000	00000	000	- 005	000	E004	00000	2000	
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	00000	00000	900	00000	00000	0000	20000	20000	-
-	9	4 4	4 6 6	000	000	400	200		

0.000 0.000							O KP				128 .128			VBWDSP (KBW, KP)			125 -125				OKP)			1.027 1.027				T T		1.027					344SF (KHA) 2.120	VBADSF (KBA)	.246 2.12	VRAASF (KHA)
000.00								30 C	200	2	4 08	7	7		T	2	N T	7	7	7		0 0	2 5	~ ~	9	2	7	9	3	25	2	2	7	D	6 .729		5 .729	
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0000	00.00	0.00	000	00 0	000	0.000																																

1.214	SABWAR (KSW, KKW) 1-214 0-000	0.000	e 78%	0.000	00000	3.597	0.000	0.000	0.00
1.058	0.000	0.000	2.190	0.00	0.000	10.048	0.000	0.000	
a 4 92	24082	3.681	2,197	0.000	0.000	18454B	00000	DADAD	00000
00000	2.260	9.025	.510	0.000	00000	43.387	00000	00000	0.000
1891	00000	0.000	*351	144538	224581	1.613	284947	11.688	21-053
. 4.83	00000	000.0	. 151	14.535	22.581	1.613	28.947	11.688	21.053
1.042	6000	305	. 223	000	0000	25.056	0000		000
1.057	000 10	00000	24197	00000	00000	10.000	00000	00000	00000
000-0	0.000	0.000	0.000	00000	0.000	0.000	00000	0.000	0.000
SABWDR (Kd#+KM#)	Kelal)								
1.214	00000	00000	784	0.000	00000	3,597	0.000	0.000	00000
1.058	00000	000-0	2.190	0.000	000-0	10.048	0.000	00000	0.000
2500	Caghe	3.581	20197	00000	0 000	18.54B	00000	00000	00000
0.000	000.0	5000	016.	000000	000000	45.487	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	0.000	00000
.481	0.000	0.000	.351	14.535	22.581	1.613	28.947	11.688	21.053
1.206	0.000	0.0.0	a B 5.6	0.000	00000	3,919	0.000	0 0 0 0	0.000
1.042	• 033	.39€	.223	0.000	000-0	25.855	000-0	00000	0.000
0.000	0.000	000000	0.000	000000	00000	00000	0.000	00000	0000
SARWAB (KHW.	. Kdw)		4	6		2 7aK	75 263	6	
	0000	00000		00000	00000	2 3.2		0000	0000
+000	10000	2.243	10.485	00000	0000	3.418	200000	0000	0000
0.000	.887	6.785	26.214	0.000	0.000	8.544	0.00-0	0.000	0.000
.772	00000	00000	1.942	13.939	13-043	.633	00000	7.692	12.821
.772	000-0	000-0	1.942	13.939	13.043	•633	00000	7.692	12.821
1-21:	00000	0.000	34689	0000	00000	10203	00000	00000	00000
1.004	000	0000	1.942	13.939	E40.61	- 633 - 463	000000	2000-0	129.21
0.000	00000	000.0	0.000	000.0	00000	0.000	0.000	00000	0.000
SARWOB (KRW, KBW)	- 1								
1.029	0	0.00	8.244	00000	00000	6. (83	32.683	00000	0000
1.004	0000	00000	7 484	0000	0000	3.4.8	20.00	0000	0000
00000	n es	6.7AE	26.214	00000	000	A SAA	0000	0000	000
.772	0	00000	1.942	13.939	13,043	.633	00000	7.692	12.821
.772	0.000	0.000	1.942	13.939	13.043	.633	00000	7.692	12,821
1,211	000 0	0,000	3.689	00000	00000	1.203	0.000	00000	0.000
.772	00000	00000	1.942	13.939	13.043	.633	00000	7.692	12,821
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SABMAR (KUAM" KHW)	IN KRW)							3	
000	000	1 000	1000	1.000	000	000	000	000	000
1.000	1.000	1.000	1.000	00001	1.000	0000	1.000	1.000	0000
1.000	1.000	200-1	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1.153	0000	0000	1-153	1.151	1-161	1.145	1.158	1.156	1.158
1+153	0.000	00000	1.153	1.151	1-161	1-145	1 - 158	1.156	1.158
00000	74555	7.538	00000	00000	00000	00000	00000	00000	00000
00000	7.555	7.538	000.0	0000	00000	0000	00000	0000	00000
1.000 1.	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0000	1.000	3.000	1.000	1.000	1.000	000	1.000	1-000	000
1000	2000	-	-	20000	200000	2000	2000	7777	5

1,555 1,558 1,159 1,15		000		1 1 2 2		176-1	971		1 1 1 1 1	1 1
7.555 7.538 0.000	CCT OT	00000	0000	10100	10101	10101	C+ 7 + 7	1.100	061 • 1	1.138
7.555 7.538 0.0000 0.00	1-153	0.000	0.000	1,153	1:151	1:161	1,145	1.158	1.156	1,158
7.555 7.234 0.000	0.000	7 - 555	7.538	0.000	0.000	0.000	0.000	00000	0.000	0.000
7.555 7.334 0.000	0.000	7.555	7.539	0.000	0.000	0.000	0.000	0.000	0.000	00000
1,000	000.0	7.555	7.538	0.000	0.000	0.000	0.000	00000	0.000	0.000
1,000	SARWAB (KRAM,	(KBK)								
1,000	1.000	1,000	1.000	1,000	1,000	1,000	1,000	1,000	1.000	1.000
1,000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
0,000 0,000 1,194 1,194 1,194 1,195 1,196 1,211 1,192 1,000	1.000	1.000	1,900	1.000	1.000	1.000	1.000	1.000	1.000	1.000
621,75 346,89 667,79 5.01.20 453.85 467.78 2.02.2 4 3	1.196	00000	000.0	1,194	1.194	1.217	1.196	1.211	1,192	1,205
1,000	0.000	6.097	6.108	00000	0.000	0.000	0.00	00000	000.0	00000
1,000	SARMUB (KMAM.	KBW)								
1,000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1,000
1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000	1,000	1.000	1.000	1.000	1.000	1.000	1.000	1,000	1.000	1.000
621,75 346,87 548,37 6.104 1.217 1.196 1.217 1.196 1.219 1.196 1.219 1.196 1.219 1.196 1.219 1.196 1.219 1.196 1.219 1.196 1.219 1.2	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
621,75 346,83 621,80 346,86 1 4 1 4 501,20 453,86 2 4 2 4	0.000	0.000	6.109	0.000	0.000	0.000	0.000	0.0000	00000	0.000
501.21 453.85 501.20 453.85	TRANVO (KHU)	21,	90							
501,20 453,85 501,20 453,85	TROWNO (KRD)									
1 4 1 4 501,21 453,86 501,20 453,85	423,28	621,80	346,86	548.44						
501,21 453,86 501,20 453,85	(RDATV (KRD)	-	•	2						
501.21 453.86 501.20 453.85 2 4	(HDDTV (KRD)									
501.21 453.86 501.20 453.85 2 4		-	4	2						
501.20 453.85	556,92	- 4	453,86	467,79						
501.20 453.85	rBOwvD (K9U)									
e e	556.91	501.20	20	467.78						
€ €	KBDATV (MBD)	2	4	п						
4	KBDD TV (KHD)									
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11.02	### ##################################
12.07 10.00	29.15 FELOMA BY MISSION AND AIRCRAFT TYPE 20.16 11.5 7 0.00 20.16 11.5 7 0.00 20.16 11.5 7 0.00 20.00 0.00
	A I R CRAFT K A
	A I R C A A A A A A A A A A A A A A A A A A

	11143.75									77.55								11143.75								77.55												
3500.00	247.50	TOTAL	.87	122	0.000	44.56	2437	7.91	4.25	3450	TOTAL	2466.37	89.12	875.00	1931.78	94.30	825.00	247.50	TOTAL	7.20	.22	000	44.56	2.48	7.91	3.59							TOTAL	1875.7A	TOTAL 1892.18			
											T TYPE								PAFT TYPE										D KILLED) KILLED						
		FT TYPE									AND ATRCHAFT								A-10 AIRCRAF								KILLED		NUN-SHELTERED	KILLED		NON-SHELTERED				CRCHI	914.04	
		AND AIRCPAFT									MISSION								BY MISSION								NON-SHELTERED		AND	MON. SHEL TERED		AMD	RAFT TYPE		AFT TYPE	CACAI	2259.15	
		W[55104									FLOWN BY								KILLED								AND		FT SHELTEMED	DNA		T SMELTEREU	T	94.20	HY ATACRAFT	CRSaL	e.	
20000	112.50	KILLED BY	.23	000	0.000	17.85	56"	3.16	0.00	7	HED SOMTIES	1036.21	39.60	0.00	1916.75	58.62	375.99	112.50	RED AIMCRAFT	2092	000	33	17.84	06.	3.16	0.00	T SMELTERED		BLUE ALHCRAF	SMELTERED		RED ALMCDAFT	- Ban		INVENTORY 1171.72	CAG	99.	
1 20 000	00°557	U AIMCRAFT	34	.13	40	20.71	1.42	040	00.00	6115	_	1370.17	44.53	0000	315.90	84.69 82.81	450.00	135,00		4.29	13	7000	26.71	1.49	42.74	2.15	AIRCRAF	60.78	CUMULATIVE BI	4	30.27	CUMULATIVE P	4.0	540.54	U AIMCRAFT	CHSML	1.30	
22000	00.00	LaJ T	0000	0000	3.60	0.00	0000	0000	4.25	0000	CU	00	000	00	0000	0000	100	00.00	CC	0000	0.00	00.00	00.00	00.00	0000	0.00		0.00	0.00	MED	00.0	0.00		585.68	REU 982.74	CMGL	66.	

742,27	3,30	2.00	4.70	.61	. 0 A	.75	02.	24.	.19
CBSAU	CASAD								
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RSAFR(IR)	360.00 150.00	150.00							
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1020	NBDH (KBU•Ib)	0.16)						
	000	000						
	00.0	000						
	0000	00.0						
1030	NBDZ (KRL	3						
	00.0	00.0	0.00	00.00				
1040	TPBU (KBF	, KBU)						
	• 0	0	• 0	0.				
	0.0	200	0.0	0.0				
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1050	TWBD (KBW + KBU)	(VED)						
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															1110											112	116	1130		1135		1140	411	PÍ	1150				1160			

0	0	0	400				
1172 BSAH	BSANF (18, IFPBS)						
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0.00		00.0	00.0	00.0	00.0	00.0	0.00
1175 HSP7				•			
0							
1180 BRPZ							
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0	0						
1230 BGSS(J)	(7)						
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1240 BGSH(IR)	(18)						
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1245 BGSRUR(IH)	UR(IB)						
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1250 BGSZ							
1256 BG57H7	112						
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IRAAR		4, 4, 0, 0, 0, 0, 0,
IRRAZ	1.	3, 3, 0, 0, 0, 0, 0,
IBAFCH	e 0 a	
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PBA2	.0.0	. 0.1&7AE+00, 0.1&7AE+00, 0.0, 0.0, 0.0, 0.0, 0.0.
PBA3	= 0.5E	E.OO. 6.0. 6.0. 0.0. 0.0. 0.0. 0.0. 0.0.
PBA4	0.0	, 0.3r62E+00, 0.3062E+00, 0.1E+01, 0.0, 0.0, 0.0, 0.0,
PBAS	*0°0 =	. 0.1n2E+00. 0.102E+00. 0.0. 0.0. 0.0. 0.0.
PBA6	.0	0.55.00, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0
PRAI	.0.0	• 0.3375E+00. 0.3375E+00. 0.0. 0.0. 0.0. 0.0. 0.0.
PRA2	0 8	U, 0,125E.00, 0,125E.00, 0.0, 0.0, 0.0, 0.0,
PRA3	.0	0.5E+00, U.O. 0.0, 0.0, 0.0, 0.0, 0.0,
PRA4	0.0 =	, 0.375E+00, 0.375E+00, 0.0, 0.0, 0.0, 0.0, 0.0,
PRAS	.0.0	, 0.125E+00, 0.125E+00, 0.0, 0.0, 0.0, 0.0, 0.0.
PRAS	.0	0. 1E + 01, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,
PBACS	.0.0	, 0.1E+00, 0.1E+00, 0.1E+00, 0.0, 0.0, 0.0, 0.0,
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0 2 2 2 2							
BDED	*	0.2E-03,	U.4E-03.				
BODEC		0.1E-03.	0.25-03,				
BDDEF	п	0.2E-03.	U.3E-03.				
BODER	×	0.4E-03,	0.4E-03.				
BDDEZ	×	0.0.0	Sr-03.				
BDDAC		0.1E-03.	U.2E-03.				
BODAF	3	0.2E-03.	U.3E-03.				
BODAP		0.3E-03.	0.4E-03.		i		
BDUAZ	K.	0.0.0.55	·E-03.				
BDAD	H	0.2E-03.	0.4E-03.	,			
80SC	RI.	0.2E-03.	V.4E-U3.				
BDSF		0.4E-03.	P.6E-03.				
805R	ü	0.6E-03.	0.85-03.				
2508		0.0.0.	0.15-02.				
BDGC	M.	0.1E-03.	0.26-03.				
BDGF	w	0.46-03.	f.3E=03.				
80GH	м	0.35-03.	0.45-03.				
8062		0.0, 0.56	56-03.				
8088	М	0.4E-03.					
8066	a .	0.46-03,					
BDAS	H	0.46-03.					
BDAN	и:	0.46-03.					
ROED	W	0.2E-03.	U.4E-03.				1
RDDEC		0.1E-U3.	C.2E-03,				1
RODFF	n.	0.4E-03.	0.3E-03.				1
RODER	WI.	0.36-03.	U.4E-03.				
RODEZ		0.0.0	0.55-03.				
RDDAC		0.15-03.	0.26-03.				
PDDAF	и.	0.2E-03,	0.35-03.				
RDDAH		0.3E-03.	0.46-03.				
RODAZ		0.0.0.0	0.5F-03.				

RDSC =	0. <e-u3, &e-03.<="" th="" v.=""></e-u3,>
ADSF =	0.6E=03, C.6E=03,
RUSR	0.6E-03, 0.8E-03,
RDS2 =	0.0, 0.1E-02.
RDGC ==	0.1E-03, 0.2E-03.
RDGF	0.2E-U3, 0.3E-U3,
RDGR =	0.3E-u3, 0.4E-03,
R062 =	0.0, 0.5F-03,
RD5S =	0.65-03,
RDGG	0.65-03.
ROAS	0.65=03.
RDAN	0.4E=03.
п	U. 0.4F-01. U.76E-01. 0.1E-01. 0.0. 0.0. 0.0. 0.0. 0.0. 0.0.
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н	55E-01: 0.75E-01: 0.75E-01: 0.75F-01: 0.75F-01: 0.0: 0.0: 0.0: 0.0: 0.75F-01: 0.75F-01: 0.
198-01	0.0, 0.0, 0.0, 0.0, 0.75E-01, 0.75E-01, 0.75E-01, 0.75E-01, 0.0, 0.0, 0.0, 0.0,
00	$0_{a}U_{a}$ $0_{a}O_{a}$ $0_{$
0.0.0.0	0.40.4
BKDA	125E-00, 0.125E-00, 0.125F-00, 0.125E-00, 0.0, 0.0, 0.0, 0.0, 0.0, 0.125E-00, 0.125F
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4	.0° 0.23E-01°
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BKS .	0.2E+00° 4.2E+03° 0.2E+00° 0.0° 0.0° 0.0° 0.0° 0.0°
8KG .	0.1E. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
BKSS =	0.5E.00. 0.2F.00. 0.2E.00. 0.2E.00. 0.0. 0.0. 0.0. 0.
BKGG A	0. LExu0. 0. LExu0. 0. LExu0. 0. LExu0. 0.0. 0.0. 0.0. 0.0. 0.0.
BKAS =	0*U* 0.255-01. 0.35-01. 0.545-01. 0.0. 0.0. 0.0. 0.0.
BKAN .	0.50 0.1E 000 0.127E 000 0.272E 000 0.070 0.00 0.00 0.00
RKED = 0.5 0.00 0.00 0.58E-01.0	C.58E-01: 0.58E-01: 0.58E-01: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
0 0 0	0.4to 6.00 0.00
RKDF	0.5F-01, 0.4F-01, 0.4F-01, 0.0, 0.0, 0.0, 0.0, 0.0, 0.5F-01, 0.5E-01, 0.5E-01, 0.5E-01, 0.0, 0.0,

FFBEKH	86	0,55-61,
FFBOKH		0.0
FFRAKH	86	0,1E.00, 0,1E.00, 0,1E.00, 0,0, 0,0, 0,0, 0,0, 0,0,
FFREKH	86	0.56-01,
FFRDKH		0,00,0
AGM	·	PBAAGH = 0.4E+Uls 6.2E+Ols 0.2E+Ols 0.2E+Ols 0.0s 0.0s 0.0s 0.0s
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ARBERA =	10	0.15.01.
ABREBA .	-	0,1E,01,
SOR	14	PABSOR # 0.1E+00.
PARSOB		0.15.00.
PBA7		0.0. 0.444E-01. 0.444E-01. 0.0. 0.0. 0.0. 0.0.
PRAT		0.92. 0.375E-01: 0.375E-01: 0.0; 0.0; 0.0; 0.0; 0.0
SRB7		0.00 0.15E+01. 0.2F+01. 0.0. 0.0. 0.0. 0.0.
SRR7	10	0.4, 0.256.01, 0.36.01, 0.0, 0.0, 0.0, 0.0, 0.0,
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NOTE		(hT)	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND											egil and refundamental and the second		R28425.47							0000			0.00				104000.00		13836.00	
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000	70.00	06.00	000	00.0	131.00	131.00	0000	12.00	12.00	00.0	92.00	103.00	00.0	18.00	18.00	00.0	40.00	000	0.00	20.00	20.00	00.0																							
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1 EFFECTIVE PEOPLE IN THEATER 2188682.92 RWDS(KR#*KAU.J) 10.00 15000.00 3000.00 0.00 0.00 0.00 10.00 15000.00 0.00 0.00 0.00 0.00 0.00 10.00 0.00	000			000				
AL EFFECTIVE PEOPLE IN THFATER 2188682,92 RWDS(KRW:KAU.) 0.00 240840.00 13000.00 3000.00 0.00 6000.00 3000.00 0.00 0.00 0.00 0.00 0.00	00.0			00.0				0
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00.00	1128.00	00.00	00.0	80.00	1980.00	00-19	0000	324.00	12.00	0.00	12.00	72.00	1800	0000	108.00	18.00	00.0	72.00	30.00	00.0	180.00	000000000000000000000000000000000000000	00.0	9	00.00														4										
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00.00	0.00	720.00	1945.00	00.00	00.00	230.00	00.00	0.00	96.00	60.09	00.00	0.00	270-00	00.00	00.0	144.00	00.06	0.00	240.00	150.00	0000	120-00	75.00	00-0	0000	See KAU. IR)		00.0	639.00	00.0	00.00	558.00	00.0	00.00	1167.00	00.00	67.00	207.00	00-0	00.00	36.00	00-0	00.00	162.00	00.0	00.0	20000	00.00	0.00
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CBPCS (J.)	9910	6600	0600	0200	Alla	.0020			
CRCS(J)									
371 89	107 47	539,18	163.75	52 [5]	837.35	367.50			
CRPCS(J)	.039	.3945	.0325	.0025	.0041	.0025			
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CBKLSIKBAL			0	2 40	.7.	4			
0 0 0 A 1	30 05	71.39	24°23	3.69	1.0.05	32.04 6.98			
23.49	37.40	26.40	68.6	16.4	43.61	12.50			
2.17	5.19	3.89	175	456	4000	160			
.10	0.00	24.	000	.03	2.4	500			
1.21	2.85	2.16	94.	.30	2.34	80.			
00.00	3.10	2.55	00.00	00.00	00.0	00.00			
-12	.20	-16	• 95	.03	.22	00.			
ind X									
597.10	114.42	156,29	17.60	1.42	.21	9.89	5,65	.89	.74
CRW[S(KRW+J)	J) lel.al	98-06	26.65	21,09	135.96	55,77			
10.23	20.51	14.77	4.57	40.4	23.94	8.93			
14034	20-10	19a85	6449	6.20	30-81	10.74			
6.31	000	123	50.	404	.20	800			
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50.	.16	.15	20.	20.	.08	• 0 5			
CRWL (KRW) 504, 79	67.63	118.27	12,53	1.18	33	13.12	5.8	-29	64.
RBPCS (J)									
11699.	.2664	\$154.	1,7500	1.2506	.3466	1.2506			
CRRPCS(J)	,2004	21544	1.2508	1.2506	*3466	1.2506			
RBPC	CMBPC								
. 73	.55								
1723.80	CHNHC 2193.46	CBN8C*	CHNHCM						
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	10+7E+05	1331F + 45	11436+05	3489E.04 .6489E.03 .1428E.04 .8760E.03 .1619E.04	5487E+03	1428E + 04 .	8760E+03 .	1619E+04 .8	.8097E .03
CRAS (KRA)									
0.00	1223,50	978.71							
	CHPS								
• >820E.06 •	. 6430E 06								
CROKES (KRE.KDE)	Kde)								
00.44	00.0	0.04	4.11	00.00	00.0	1.61	1.86	00.0	0.00
31 33	00.00	0.00	5000	00.00	0000	1199	40.00	0000	00.00
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174.63	0.00	0.00	2.08	.86	.13	1 - 43	0.00	. 62	.52
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113.79	00.0	00.6	1-70	0.00	00.0	66.	00.0	00-0	00-0
44.41	00.0	3.00		• 22	.0	-42	0.00	•13	.11
0.00	00.00	0.0	00.0	00.00	0.00	00.0	00.0	00.00	00.00
CHAKBS (KRA·KOW)	AGE)								
00.0	00.00	0.00	00.0	0.00	00.0	00.0	00.0	00.0	0.00
52.05	6.93	3.74	124	0.02	00	- 05	01	10*	000
18-45	1.34		60.	• 0 1	00.	10.	00.	• 00	00.
CBGKRS (KHW, KHM)	KHW)								
41.01	0000	00.0	8.65	00.00	00 0	,38	00.0	00.00	00.00
119.83	00.0	0.00	4 · A]	00.00	0.00	5.60	00.0	00.0	00.0
10.00	00.00	31.26	10.04	00.0	00.0	28.2	00.0	0000	00.00
65.54	00.00	0.00	000	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	920	1.29	0 00	. 23	.4.
13.00	0.00	00.0	-17	.16	• 05	.20	.08	+0.	-07
105-37	00.0	0.00	1.35	00.00	00.0	1.61	00.0	00.0	00.0
68.	• 05	- 17	0100	0.00	0.00	-12	00.0	00.00	00.0
00.00	000	00.0	00.0	00.00	00.0	00.0	000	00.00	00.0
CBAKKS (KHA·KHA		0	0	6	0	0	6	0	0
03.80	10.63	200	1.67	90		0.0	0.0	200	10
100.63	4.52	3.61	1.29	50	0,01	50	0	01	0.01
00.0	0000	00.0	00.0	0000	00.0	0.00	00.0	00.00	00.0
CRGKBP (KH4)	100.99	2153.84	793.11	292.42	65.07	122.55	71,75	11,55	00.00
CHAKED (KRA)									
00.0	212.05	50.54							
CBGKRP (KB4)	150.27	1617.85	389.77	187.35	33,85	113,99	2.30	10.20	00.0
4000000									
00.00	359,72	218.73	00.0						
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0000		AIMCHAFT	900	500	26.48	1.39	5.21	0000	CUMULATIVE RED	3132,93	113.59			115,96	00.0	135,00	CUMULATIVE MED	12.23	38	00.00	53,19	200	0.00		40.70	CUMULATIVE BL	AIMCRAFT	99.75	CUMULATIVE RED	675.35	1620.32	CBSML	3.20
3930.97	00.0	REU	000	00.0	000	0000	0000	00.0	CUM	000	00.0	97				00.00	CUM	00 0	0 0	0 70 0	0000	000	12.03	BLUE	00.0	0.00	HED	00.00	0000	969.47 6	REU 938.19 1	CBGL	3.25

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SAS(J)		0	0	C	-	0
ISMA(J)		0	0	0		0
KTER(J)	m	m	· N	2	-	-
KPBA (J) 2	2	8	2	2	2	2
KPRA (J)	2	2	2	2	2	2
#10s(1)	100.00	90.00	110.00	60.00	80.00	120.00
CFEBA(J)	1.65	00.0	00.00	00.0	2.03	00.0
FEBA(J)	4,22	1.69	00.0	0.00	7,15	00.00
VBGS(J) 962_62	1948 64	1207.38	1457.47	921,32	3956,56	1948,18
VRGS (J) \$229.91	0423,86	3533.86	2668.17	1586.73	8206.09	4460.14
VBAS(J) 357,96	329.05	183,25	90.95	49.13	294.66	213.20
YRAS(J) 192,53	458,30	00.0	00.0	00.00	220,39	0.00
FHABS(J)	3,32	2.97	1,72	1.64	1.98	2.06
FRBES(J)	-0.00	.34	30.	.61	-0.00	. 89

	0000	1.00	1 4 40	32.90	0.00	00.00	00.00	
	00.00	1.00	00.0	0.00	0000	00.00	00.0	
	2.00	2.00	0.00	2.00	2.00	5.00	3.00	
102n N	NBUR (KBI) . [d	(P] (O						
	0000	00.00						
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1030 N	0.00 a	1030 NBOZ(K9U) 0.00 U.03	00.00	0.00				
D 090	PDSIKE	P.KBU.J)						
	0000	3456.63	8763.49	00.0	0000	6	00.00	
	0000	4466.24	8767.84	0.00	- 1		0.00	
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	000	19921.36	54.6466	0000	000	0 0	0000	
	000	0 00	000	11074 45			11074 47	
2387.	8.07	23663.96	00.0	23969.10	23949,17	59594.68	35423.67	
TOTAL	2.69 1	TAL 60832-69 133302-64	73379.53	92582,20	61721.46	275437.8A	123462,03	\$E + 86 \$0 28
1070 8	PDHIKE	APDRIKEP KHO. IB.						
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TOTAL	0.00	00.00						00*0
1080 H	PDZIKA	MPDZ (KRP "KHU"						
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TOTAL	EFFECTIVE	TAVE PEODL	E IN THE	ATER	1712898.33			
1090 B	WDS (KR	BWDS(KR#+KBU+J)	3990.14	00-0	0.00	00-0	0 = 0	
	0.00	3945.90	3990-14	2.00	0.00	00.0	00.0	
	00.0	00.0	00.0	3990.17	00.0	15957:01	3792.00	
786	862.87	1891.80	00.6	7980-33	7982.25	19821-26	11976.00	103225.77
	0.00	521,38	534, 88	00.00	00 00	00 00	00.00	
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32	1447.17 88			[**]	17									238.23 5							m	11			5																										
			0.00	0.00	119.44	00.00	00.0	79.97	00.0	0.00	0.00	23.90	0.00	0.0	134.70	0.00	0.00	000	0000	0.00	00-0	79-97	0.00	0.00	39.97																										
322.6A	549.0°	0.92	3.00	39-H1	110.64	00.0	30.00	70.07	0.00	00.0	12-00	53.49	0046	59.85	139.48	0.00	65.6	2.50	00.6	0.0	39.98	10.61	0.00	00.00	30.07																										
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0 - 0 19	571.61	66.56	93.114	0.00	117.53	130.81	150-057	7007	11.98	11.94	0.00	23.97	VI. 0 6.1.5	0.00	138.67	10.01	15.97	00.0	00.00	34.74	0.02	79.49	19,85	24.41	39.70	(KHw + KBU + 18)	0.00	0.00	00.00	0.00	00.0	00.00	0.00	0.33	0.00	0.00	7 C	0.00	00.0	0.00	0000	00.0	00.0	0.00	00.0	000	0000	0.00	00.0	000	2000
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12,00	2.00	2.00									,	41H80.57		10		185	-																5970.84	1			
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1.07	00°E	00.0						00.0	4418.74	19928,00	0000	3492,51	0000	0000	19457.83	0000	65156.77												3.00	00.0	8.4	2993.21	4979.63	0000	401.24	636.21	0000
5.03	0.00	00.00		NO.	12.00	00.0		00.0	26557.90	- 1	000	23943.00	00.0	00.0		0.00	120248.14		22423.67	0.00	0000	17440.63	0.00	32389.74	0.00	00 0	275614.28		0.00	0.0	E IN THEAT	179	1		^		
4.00	3000	0.00	U.IR)	1,00	3.00	0.00		0000	110.22			2/910.85		- 1		00.0	1	RPDA (KRP + KRU + IH)	4411.95		- 1	3,31,52		6372,82	19118-46	00.0	64218.42 2	PIKRU	0.00	0.00	TIVE PEOPL	23889.89	14931,18	0000	3203 58	1058,25	0000
2010 NAUS (KRU+J)	60.00	00.00	2020 MADM (KRU. IR)	0.00	00.0	000	2030 NRDZ (KRU)	0 0	8765.83	- 1			0000	000		00.00		2070 RPDRIKH	00.0			00000		00.0	00.0	a	TOTAL	2080 RPDZIKRPIKRU	00.00	0.00	TOTAL EFFECTIVE	2090 RWDS(KRW,KRD,J)	17914.10	00 0	00.00	1269.21	00.00

	15874.15			13216.19			4163.64			767.63			1	1699,35			1055,34			1918,55			8				61720.30		٠	5607.58			4646.50			6365.40			1435,93			251.86			916.49			377.65
240.9R	1118.60 89.93	00.0	79.93	1478.36	5000	000	323.94	12.00	12 00	71.00	17.87	0.00	9000	17.00	00"0	12.00	71.97	2000	20000	179.91	14.99	0.00	0																									
718.39	370,53	776.71	239.60	658.91	133 05	182.93	107.96	143.92	23.99	23.00	212.85	106.43	17.74	35.4R	35.97	35.97	23.9R	35% 04	000	59.94	179.72	29.95	20 05																									
24	186.75	00.0	239.84	329,79									17.89	600	000	35.99	12.00	000	0.00	29.99	000	0.00	4																									
0.00	0.00	1166.08	0	00.6	200	00.00	00.0	12.00	30.00	0000	17.87	160.81	000	3,00	53.98	00.0	00.00	29.92	000000000000000000000000000000000000000	00.0	14.09	44.98	000																									
0.00	539.63	777.46	00.0	00.0	127 04	0.00	00.0	71.97	00°00	0.00	107.44	107.44	2.00	00.00	35.99	2.00	0.00	08 0 0 L	50.00	0.00	89.91	29.97	000	14866434	35674-42	0.00	2014-10	2554 - 84	00.00	0.00	2231.24	00.00	00.0	4664.95	00.00	00.00	827-73	9	0.00	59499	9	00.0	å,	647-55	0.00	89.96	215-91	0.03
0000	719.90	1942,30	0 00	0.00	344 84	0000	0000	45.93	90.00	00 0	142.40	267,12	0000	2000	89.92	0000	00.00	12.80	0000	00.0	119,81	74.88	000	2795.39	8386.16	0.00	0.00	636.93	0.00	00.00	556.53	00.0	00.00	1161018	00 0	00.00	206.48	00-0	00.0	15.01	00.0	00.00	17-93	161.11	0.00	17.94	53.83	00.00
	179.75	2330,75	00 0	0000	00 61	00 0	06.0	23.99	70.00	00 0	35.69	321,21	0000	36.00	107.95	0	00.00	34 C	0 00	00.0	29.97	89.90	00.0	00 RWDR(KHW+	00.0	00.00	00.00	00.0	00.00	00.00	00.0	00.00	00.00	0000	0000	00.0	0.00	00-0	00.0	00.00	00.0	00.0	00-0	20.0	9.00	00.0	0.00	00.00

	529.27		314.14		00.0	0000	0000	00.0	00 0	00.0	00"0	0000	00.0	00.0	
					00	00.00	no	0.0	00	0.0	0.0	000	0.0	00	
354.112	00:00	179.55	0.00		0.40										
84.65	0000	# C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00.0	** KHU!	0.00	0.00	0.03	0.11	0.00	0.00	00.00	0.0:0	0.00	0.0.0	
0.00	00.00	000	0.00	2110 HWDZ (KHHIKHU)	00.00	0.00	0.03	0000	00.00	0.00	00.0	0.00	0.00	0.0.1	159840.UN

2230 HG55(J) 511916.61 503572,43 510091.14 514459,10 514468.39 540064,14 509106.59 2240 MGSH(IR) 599345,41 570726,33 587440.69

194 64 473,89

2190 KHWZ(KHW) 926,92,93 ±323,10 9525,67 6527,76 H4U1,20 374,60 489,13 540,22

2180 HHP7 694137-62

A-81

2250 HGS2 2921017.18

25 5 5 6 1 1 1 2 2 3 3 3 4 4 4 4 4 5 5 5 5 5 5 5 6 5 6 5 6 5 6 5	100					- Tona	200			
1741.68	0100	.0115	0900°	.020	.0020	9800.	.0020			
CAPC	501.05	1741.84	840.95	327.21	302.24	27,086.73	654.43			
376,07 117,07 55,05 35,53 491,87 64,04 376,07 117,07 55,05 35,53 491,87 64,04 376,07 317,07 34,26 32,92 24,99 10.09 26,11 34,26 31,24 31,24 31,24 10.09 26,11 34,21 31,24 31,24 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 40,00 10.00 40,00 10.00 40,00 40,00 10.00 40,00 10.00 40,00 40,00 10.00 40,0	9460.	**00*	.0035	.0025	.0025	.035A	•0025			
1375,07 117,02 59,05 35,53 491,82 64,04 10,09 26,11 39,06 1,25 13,39 11,00 4,04 14,25 14,29 14,29 14,29 14,09 11,00 4,04 14,25 14,09 1,10 1,10 1,10 1,10 1,10 1,10 1,10 1	CHC	CHPC	CHC 7476.35	CAPC						
375.07 117.07 59.05 35.53 491.82 65.06 10.08 31.84 18.77 9.81 123.92 10.06 4.81 1.82 11.00 4.81 1.82 11.00 4.81 1.82 11.00 8.81 11.00 8.82 11.00 8.82 11.00 8.82 11.00 8.82 11.00 8.82 11.00 8.82	LSKRMEL									
10 0 0 0 0 0 0 0 0 0	227.81	-	117.02	50.65	35,53	491,82	64.04			
1050 31578 1757 371 12372 1259	36.53	70.09	26-11	4.46	7.38	92.H1	13.96			
1.05	5465	11.06	4168	1.50	1.12	11.48	1.94			
6.913 2.60 .002 .012 .013 .014 .02 .016 .016 .016 .016 .016 .016 .016 .016	.21	1.05	.51	.08	90.	.65	.10			
256,74 356,78 37,43 2,72 ,48 21,15 8,23 2,06	200	11.	* 04	102	-02	. 18	. 03			
256,74 356,74 37,43 2,77 ,48 21,15 8,23 2,06	0000	50.03	2000		000	00.00	1.15			
256,74 356,78 37,43 2,72 ,48 21,15 8,23 2,06 339,94 155,21 53,81 43,19 412,94 115,21 47,67 23.03 9,12 9,25 82.00 17,80 6,190 30,70 12,91 12,21 16,43 2,84 6,17 2.51 147 .73 3.52 6,190 30,20 147 .73 7.63 3.52 6,190 3,25 2,68 .73 7.03 3.52 6,190 3,25 2,68 .70 2,24 .06 6,190 31 2506 1,2506 1,2506 6,90 3 1,2506 1,2506 1,2506 6,90 3 1,2506 1,2506 1,2506 6,90 3 1,2506 1,2506 6,90 3 1,2506 1,2506 6,90 3 1,2506 1,2506 6,90 3 1,2506 1,2506 6,90 3 1,2506 6,90 3 1,2506 1,2506 6,90 3 1	.32	90	-10	.10	.07	. 70	.12			
256,74 356,78 37,43 2,72 ,48 21,15 8,23 2,06 339,94 155,21 53,81 43,19 412,94 115,21 47,67 23.03 9,12 9,25 82,00 17,80 61,90 34,70 12,91 12,27 106,43 26,48 61,90 34,70 2,12 9,25 12,27 106,43 3,52 64,7 22,81 10,97 0,73 7,03 3,52 64,1 22,3 0,04 0,03 0,03 1,2506 61,90 21,2506 1,2506 1,2506 1,2506 64,90 2 1,2506 1,2506 1,2506 1,2506 64,90 2 1,2506 1,2506 1,2506 1,2506 64,90 2 1,2506 1,2506 1,2506 1,2506 64,90 2 1,250 0,00 0,00 0,00 0,00 0,00 0,00 0,00	.27	*38	*14	80.	90.	*65	•10			
J) 339.94 155.21 53.81 43.19 412.94 115.21 47.67 23.03 9.12 9.25 82.00 17.80 61.90 30.70 1.947 2.77 1.64 1.82 61.97 24.91 12.27 10.643 28.648 61.97 2.61 1.947 2.77 2.68 7.56 3.25 2.68 3.31 3.65 7.56 3.25 2.68 3.31 3.68 7.56 3.25 3.68 3.25 7.69 2.25 3.68 3.25 7.69 2.25 3.68 3.25 7.69 3.25 3.25 7.69 3.25 3.25 7.69 3.25 3.25 7.69 3.25 7.69 3.25 7.69 3.25 7.69 3.25 7.69 3.25 7.69 3.25 7.60 3	3/1,33	256 ,74	356.78	37,43	2.72	4.	21.15	8.23	2.06	1.71
61.90	LS(KRW.)		15.51	53.83	0.00	412.94	115.21			
61.90 30.70 12.91 12.27 106.43 28.48 6.77 2.51 1.97 .73 7.64 6.89 .12 .12 .03 .02 .18 .06 7.85 7.85 1.98 7.85 7.85 1.98 7.85 7.85 1.98 7.85 7.85 1.98 7.85 7.85 1.98 7.85 7.85 1.98 7.85 7.85 1.98 7.85 7.85 1.89 7.85 7.85 1.89 7.85 7.85 1.89 7.85 7.85 1.89 7.85 7.85 1.85 7.85 7.85 1.85 7.85 7.85 1.85 7.85 7.85 1.85 7.85 7.85 1.85 7.85 7.85 1.85 7.85 7.85 1.85 7.85 7.85 1.85 7.85 7.85	24.57		23.03	9.12	9.25	82.00	17.80			
213,44 285,11 2506 1,25	32443	61.90	30 - 70	12,91	12-27	106=43	28.48			
213 44 285.11 28,34 2,54 70 29,77 1,24 6,52 5,490 1,2506 1,2506 5,500 0,000 0,	5.81	6.77	2.51	1.07	.73	7.03	3.52			
7.56 3.25 2.68 .65 1.28 1.08 1.08 1.08 1.08 1.08 1.08 1.09 1.00 .	10.	.21	.12	.0.	20.	81.	900			
213,44 285,11 28,34 .05 .03 .31 .08 213,44 285,11 28,34 2,54 .70 29,77 1,24 .62 .4902 1,2504 1,2506 1,2506 ,6596 1,2506 .4902 586,4 1,2506 1,2506 1,2506 .4902 CANHC CRNHCM 3182,40 0.00 0.00	5.99	7.56	3.25	2.68	SV	7.85	1.98			
213,44 285,11 28,34 2,54 70 29,77 1,24 62 ,4902 1,2504 1,2506 1,2506 ,90,3 1,2506 ,4902 1,2504 1,2506 1,2506 1,2506 ,4902 1,2504 1,2506 1,2506 ,4902 1,2504 0,000 ,4902 1,2504 0,000 ,4902 1,2506 1,2506 ,6903 1,2506 ,6904 1,2506 1,2506 ,6904 1,2506 1,2506 ,6904 1,2506 1,2506 ,6906 1,2506 ,6908 1,2506 1,2506	.13	. 41	.23	90.	.03	• 31	80 0			
213,94 285,11 28,34 2,54 70 29,77 1,24 65 ,4902 1,2504 1,2506 1,2506 ,90,3 1,2506 CHRPC CHRPC -65 CHANC CRNHCM CRNHCM 3182.40 0.00 0.00	.10	.32	.19	*0.	.03	.28	60.			
.4902 1,2506 1,2506 1,2506 ,9033 .3780 ,5864 1,2536 1,2506 ,6596 .655 .656 .657 .657 .657 .657 .657 .65	L (KRW)	213,44	285.11	28,34		7.0	29,17	1.24	59	1.05
.3780 ,5864 1,2596 1,2596 ,9033 .3780 ,5864 1,2596 1,2596 ,6596 .65 .65 .64NFC CBNBCM CRNHCM .24NFC CBNBCM CRNHCM .2506 ,6596 .6596	csim						8.1			
3780 ,5864 1,2596 1,2596 6596 6596 6596 6596 6596 6596 6596	1000	2064.	1.2504	1.7500	1.2506	£604°	1.2506			
CRAPC •65 CANHC CBNUCM CR 31M2-00 CASLI	PCS(J)	3780	\$9B5	1,2526	1,2506	9659	1,2506			
-65 CANHC CBNBCM CR 3182-80 0-00 CHSLI	RBPC	CARPC								
CANHC CBNBCM CR	980	• 65								
CHSE I	CBNHC	CHNHC	CBNBCM	CRUHCM						
	Coel 1	1070								
	0 • 00	0.00								

CHAC (KRA)

HS (NR4)									
3540E - 06 .	3044E . 05	2935E+05	2467E+05 .	.7654E.04 .	.1416E.04 .	.3144E.04 .	1932E+04 3	3538E . 04 .1	*1769E+04
CRAS (KRA)									
	6756.54	2209,14							
CAPS	CAPS								
- 1	·1836E*C7								
CAGKUS (KHA)	KO#)								
	00.0	0.00	A . 72	00.00	0.00	3.44	2.71	00.00	00.0
178.24	0.00	00.00	7.92	0.00	00 0	3,13	4.86	00 00	0 . 0
70.40	194.77	166.15	04.4	0.00	00.0	3.44 1	00.0	00.0	00.0
00.0	41.68	\sim	4.75	00.0	00.0	3.74	00.0	00.0	0.00
401-92	00.0	00.0	D 4 .	1.64	62.	3.10	00.0	1043	1.19
7.000	00.0	00.0	30.02		00.00	3.05	00.00	0.00	97.0
200 40		000	31 1	004	000	000		000	00.0
20.32	000	0.00	15	0 00	00.0	7.7	99	00.0	00.0
00 0	00 6	0.00	0 0	0 00	0000	00.00	00.0	00.00	0000
CRAKES (KHA, KO4)	A (0 4)								
0		0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00
1 4	3,37	1.70	.20	01	00	03	0.	10	00.
CHRKHS (KHW.	"Krida)								
98,63		0.00	1447	00.0	00.0	- 1	00.0	00 0	00.0
288,03	0000	00.00	19.87	0000	0000	12.97	000	0000	0.00
00 0	3 60	77 04	2002	000	000	1 48	0000	000	
136,96	0000	00.00	1,92	1,95	55	2,43	1,00	247	992
31,14	00.00	00.0	66.	.38	.11	74.	. 19	60.	. 17
242.64	0000	0 000	2,96	0000	0000	3.59	0000	0000	00.0
1,39	60.0	4 5 ° C	.0.	00.00	00.0	.21	0000	0000	0.00
00.00	0000	0.00	0000	0.00	00.0	00.00	00.00	0000	00.0
CBAKRS (KdA. NHW									
		0.00	0.00	0.00	0 + 0 0	0.00	00.0	0 • 0 0	0.00
219.06	24.73	19.86	90.4	.10	-05	.12	• 05	.03	.01
223.69	00.00	0.00	00000	00.0	0.00	0.00	00.00	0000	0.00
CR9KBP (KHW)									
148.62	225.89	4821.07	1758.76	653.51	142.89	267.74	160.45	25.48	00.00
CRAKBP (KHA)	- 1						*		
00.0	519.14	122.93							
CBGKRP (KUW)	357,44	+025.90	900.45	390,87	81.10	261,64	3.84	24.44	00.00
CBAKHP (KBA)									

APPENDIX B

RELATIONSHIPS AMONG VARIABLES

[The following is an alphabetical list of parameter indices designated by their maximum values. Each index is followed by the page number of this appendix on which a list of input variables dependent on that index appears.

NBAEF	B-2	NIRRL	B-3	NKRAM	B-5	NPCBHF	B-8
NBDEF	B-2	NJ	B-9	NKRD	B-5	NPCRAF	B - 7
NBFMF	B-2	NKBA	B-3	NKRP	B-6	NPCRDF	B-8
NIB	B-2	NKBAM	B-5	NKRW	B - 6	NPCRHF	B-8
NIBRL	B - 3	NKBD	B - 5	NKT	B-9	NRAEF	B-2
NIFPBS	B - 3	NKBP	B-6	NLEB	B - 7	NRDEF	B-2
NIFPRS	B - 3	NKBW	B-6	NLER	B - 7	NRFMF	B-2
NINTS	B - 9	NKP	B-9	NPCBAF	B - 7	NSEFBF	B-8
NIR	B-2	NKRA	B - 3	NPCBDF	B-8	NSEFRF	B-8.]

Appendix B

RELATIONSHIPS AMONG VARIABLES

When preparing inputs and making changes to input data, one should take care to see that all related variables are checked and changed if necessary. This appendix is devoted entirely to providing a simple means of helping the user to prepare and make changes to inputs correctly. There exists no convenient ordering system for inputting data; and often one variable that may influence another, being found in an entirely different input routine, may go unnoticed—resulting in inaccurate answers.

This appendix does not, by any means, consider all possible combinations of changes; nor does it indicate all variables that should be looked at when a change is made. Rather, it only considers all index parameters and lists variables dependent upon them. If an index value is changed, all variables below that index will also need to be changed. If a variable within a list is changed, all surrounding variables should be checked to see whether their values influence the changed variables.

Following this list of variables, there is a section on relationships of variables, indicating when changes to a variable may affect other variables, where these variables are not necessarily dimensioned to the same argument. Some of the examples in that section include a subset of the variables from one of the following lists—demonstrating the importance of the index parameter when working with inputs. However, it also emphasizes that merely looking at the following lists will be insufficient for proper input preparation.

This appendix can be useful as a guide to changing variables, but the only accurate method in making proper changes is to know the meaning of the variables and how they are used in the program.

NBAEF

BAEFX(IBAEF)

BAEFY (KBD. IBAEF)

NBDEF

BDEFX(IBDEF)

BDEFY(KBD, IBDEF)

NBFMF

BFMFX (IBFMF)

BFMFY(KP,KT,IBFMF)

NIB

NBDR(KBD, IB)

BPDR(KBP,KBD,IB)

BWDR(KBW, KBD, IB)

BSAMFR(IB)

BSAMRR(IB)

BAGFR(IB)

BAGRR(IB)

BAFR(KBA, IB)

BARR(KBA, IB)

BSARF(IB, IFPBS)

BGSR(IB)

BGSRUR(IB)

LNSBR(IB)

FBARRR(IB, IR)

FRARBR(IR, IB)

NRAEF

RAEFX(IRAEF)

RAEFY (KRD, IRAEF)

NRDEF

RDEFX(IRDEF)

RDEFY(KRD, IRDEF)

NRFMF

RFMFX(IRFMF)

RFMFY(KP,KT,IRFMF)

NIR

NRDR(KRD, IR)

RPDR(KRP, KRD, IR)

RWDR(KRW, KRD, IR)

RSAMFR(IR)

RSAMRR(IR)

RAGFR(IR)

RAGRR(IR)

RAFR(IRA, IR)

RARR(KRA, IR)

RSARF(IR, IFPRS)

RGSR(IR)

RGSRUR(IR)

LNSRR(IR)

FBARRR(IB, IR)

FRARBR(IR, IB)

NIBRL NIRRL BRLZAI(IBRL) RRLZAI(IRRL) BRLZDI(IBRL) RRLZDI(IRRL) FIBRLZ(IBRL,J) FIRRLZ(IRRL,J) NIFPBS NIFPRS BSARF(IB, IFPBS) RSARF(IR, IFPRS) FPBS(IFPBS) FPRS(IFPRS) NKBA NKRA BAFR(KBA, IB) RAFR(KRA, IR) BARR(KBA, IB) RARR(KRA, IR) BAZ(KBA) RAZ(KRA) BAMNLA (KBA, KBAM) RAMNLA (KRA, KRAM) BAMNLD (KBA, KBAM) RAMNLD (KRA, KRAM) LVBAA(KBA) LVRAA (KRA) LVBAD(KBA) LVRAD(KRA) FBACSI(KBA) FRACSI(KRA) RSLBAC(KBA) BSLRAC(KRA) RSBASI(KBA) BSRASI(KRA) BSRASR(KRA) RSBASR(KBA) IRRAF(KRA) IRBAF(KBA) IRBAR(KBA) IRRAR(KRA)

IRRAZ(KRA) IRBAZ (KBA) PRA1(KRA) PBA1(KBA) PBA2(KBA) PRA2(KRA) PRA3(KRA) PBA3(KBA) PBA4(KBA) PRA4(KRA) PBA5 (KBA) PRA5(KRA) PBA6(KBA) PRA6(KRA) PRA7(KRA) PBA7(KBA) PRACS (KRA) PBACS(KBA)

(columns continued on next page)

NKBA (cont'd)	NKRA (cont'd)
PBAAS(KBA)	PRAAS(KRA)
FBAISR(KBA)	FRAISR(KRA)
BKED(KBA, KRA)	BKED(KBA, KRA)
BKDE(KBA,KRA)	BKDE(KBA, KRA)
BKDA(KBA,KRA)	BKDA(KBA,KRA)
BKAD(KBA, KRA)	BKAD(KBA, KRA)
BKSS(KBA)	BKS(KRA)
BKGG(KBA)	BKG(KRA)
BKAS(KBA)	RKED(KRA, KBA)
BKAN(KBA)	RKDE(KRA, KBA)
RKED(KRA, KBA)	RRDA(KRA, KBA)
RKDE(KRA,KBA)	RKAD(KRA, KBA)
RKDA(KRA,KBA)	RKSS(KRA)
RKAD(KRA,KBA)	RKGG(KRA)
RKS(KBA)	RKAS(KRA)
RKG(KBA)	RKAN(KRA)
RSFBAK(KBA)	BSFRAK(KRA)
PBAAGM(KBA)	PRAAGM(KRA)
PDBANG(KBA)	PDRANG(KRA)
BSCA(KBA)	RSCA(KRA)
SRB1(KBA)	SRR1(KRA)
SRB2(KBA)	SRR2(KRA)
SRB3(KBA)	SRR3(KRA)
SRB4(KBA)	SRR4(KRA)
SRB5(KBA)	SRR5(KRA)
SRB6(KBA)	SRR6(KRA)
SRB7(KBA)	SRR7(KRA)
KBAS(KBA)	KRAS(KRA)
FFBAKH(KBA)	FFRAKH(KRA)

NKRAM NKBAM SABMAR (KBAM, KRW) SARMAB (KRAM, KBW) SARMDB (KRAM, KBW) SABMDR (KBAM, KRW) VRAMAB (KRAM, KBW) VBAMAR (KBAM, KRW) VBAMDR(KBAM, KRW) VRAMDB (KRAM, KBW) BAMKAR (KBAM, KRW) RAMKAB (KRAM, KBW) RAMNLA (KRA, KRAM) BAMNLA (KBA, KBAM) RAMNLD(KRA, KRAM) BAMNLD (KBA, KBAM) BPWLAM(KBW, KRAM) RPWLAM (KRW, KBAM) BPWLDM (KBW, KRAM) RPWLDM(KRW, KBAM) NKBD NKRD NBDS(KBD,J) NRDS(KRD.J) NBDR(KBD.IB) NRDR(KRD, IR) NBDZ (KBD) NRDZ (KRD) TPBD(KBP, KBD) TPRD(KRP, KRD) TWBD (KBW, KBD) TWRD (KRW, KRD) BPDS(KBP, KBD, J) RPDS(KRP, KRD, J) BPDR(KBP, KBD, IB) RPDR(KRP, KRD, IR) BPDZ(KBP, KBD) RPDZ(KRP, KRD) BWDS (KBW, KBD, J) RWDS(KRW, KRD, J) BWDR (KBW, KBD, IB) RWDR(KRW, KRD, IR) BWDZ (KBW, KBD) RWDZ (KRW, KRD) BALBD (KBD) BALRD (KRD) PNBD (KBD) PNRD(KRD) PBCSSD(KBD) PRCSSD(KRD) BMFDPT(KBD, KP, KT) RMFDPT(KRD, KP, KT) BMRSDA (KBD) RMRSDA (KRD) BMRSDD(KBD) RMRSDD(KRD) PSBWDA (KBD) PSRWDA(KRD) PSBWDD (KBD) PSRWDD(KRD) BRRAD (KBD) RRRAD (KRD) BRRDD (KBD) RRRDD (KRD)

RAEFY (KRD, IRAEF)

RDEFY(KRD, IRDEF)

BAEFY (KBD, IBAEF)

BDEFY(KBD, IBDEF)

NKBP NKRP TPBD (KBP, KBD) TPRD(KRP, KRD) RPDS(KRP, KRD, J) BPDS(KBP, KBD, J) RPDR(KRP, KRD, IR) BPDR(KBP, KBD, IB) BPDZ(KBP, KBD) RPDZ(KRP, KRD) BCRPR(KBP) RCRPR(KRP) BCRPH(KRB) RCRPH(KRP) BCRPP(KBP, KP) RCRPP(KRP,KP) BPCRPS(KBP) RPCRPS(KRP) BPCRPR(KBP) RPCRPR(KRP) NKBW NKRW TWBD (KBW, KBD) TWRD (KRW, KRD) BWDS (KBW, KBD, J) RWDS (KRW, KRD, J) BWDR(KBW, KBD, IB) RWDR (KRW, KRD, IR) BWDZ (KBW, KBD) RWDZ (KRW, KRD) RRWZ (KRW) BRWZ (KBW) IPGRW(KRW) IPGBW (KBW) SABMAR (KBAM, KRW) SABWAR (KBW, KRW) SABWDR (KBW, KRW) SABMDR (KBAM, KRW) SARMAB (KRAM, KBW) SABWAR (KBW, KRW) SARMDB (KRAM, KBW) SABWDR (KBW, KRW) SARWAB (KRW, KBW) SARWAB (KRW, KBW) SARWDB (KRW, KBW) SARWDB (KRW, KBW) VBWARP(KP, KBW, KRW) KP = 1, 2VBAMAR (KBAM, KRW) VBWDRP(KP, KBW, KRW) KP = 1,2VBAMDR (KBAM, KRW) VBWARP (KP, KBW, KRW) KP = 1,2VRAMAB (KRAM, KBW) VRAMDB (KRAM, KBW) VBWDRP (KP, KBW, KRW) KP = 1.2KP = 1,2VRWABP(KP, KRW, KBW) KP = 1.2VRWABP (KP, KRW, KBW) KP = 1,2VRWDBP(KP, KRW, KBW) KP = 1.2VRWDBP (KP, KRW, KBW) RAMKAB (KRAM, KBW) BAMKAR (KBAM, KRW) BWGPG (KKBW, KBW) RWGPG (KKRW, KRW) BCWI (KBW) RCWI (KRW)

(columns continued on next page)

NKBW (cont'd) NKRW (cont'd) LVBWA (KBW) LVRWA(KRW) LVBWD (KBW) LVRWD (KRW) PRWSF(KRW) PBWSF(KBW) BPWLAM (KBW, KRAM) BPWLAW (KBW, KRW) BPWLDW (KBW, KRW) BPWLDM(KBW, KRAM) BPWLAW (KBW, KRW) RPWLAM (KRW, KBAM) RPWLDM(KRW, KBAM) PBWLDW (KBW, KRW) RPWLAW (KRW, KBW) RPWLAW (KRW, KBW) RPWLDW (KRW, KBW) RPWLDW (KRW, KBW) RCRWR (KRW) BCRWR(KBW) RCRRWZ (KRW) BCRRWZ (KBW) RCRWH (KRW) BCRWH (KBW) RCRWP (KRW, KP) BCRWP (KBW, KP) BSLRWV(KRW) RSLBWV (KBW) MARRWZ (KRW) MABRWZ (KBW) DABRWZ (KBW) DARRWZ (KRW) DIRRWZ(KRW) DIBRWZ (KRW) PBWRRR(KBW) PRWRRR (KRW) PRWLRH (KRW) PBWLRH (KBW) PRWLRA(KRW, KP) PBWLRA (KBW, KP) PRWLRD(KRW, KP) PBWLRD(KBW, KP) BPCRWS (KBW) RPCRWS (KRW) RPCRWR(KRW) BPCRWR(KBW) RPCRRW(KRW) BPCRRW(KBW) NLER NLEB ERRDD(LER) EBRDD(LEB) NPCRAF NPCBAF PCRAFX(IPCRAF) PCBAFX(IPCBAF) PCRAFY(KP, IPCRAF) PCBAFY(KP, IPCBAF)

NPCBDF

PCBDFX(IPCBDF)

NPCBHF

PCBDFY(KP,IPCBDF)

NPCRDF

PCRDFX(IPCRDF)

PCRDFY(KP, IPCRDF)

NPCRHF

PCBHFX(IPCBHF) PCRHFX(IPCRHF)

PCBHFY(IPCBHF) PCRHFY(IPCRHF)

NSEFBF NSEFRF

SEFBFX(ISEFBF) SEFRFX(ISEFRF)

SEFBFY(ISEFBF) SEFRFY(ISEFRF)

NINTS (NIMAX)	NJ (cont'd)	NKP (cont'd)
BNDIS(INTS,J)	FRRASD(J,KP)	RLBDP(KP)
KTERIS(INTS,J)	BMFAS(J)	RLRAP(KP)
KPBAIS(INTS,J)	RMFAS(J)	RLRDP(KP)
KPRAIS(INTS,J)	BFWFSP(J,KP)	PBWLRA(KBW, KP)
WIDIS(INTS,J)	RFWFSP(J,KP)	PBWLRD(KBW,KP)
EFHIS(INTS,J)	PSURIS(J)	PRWLRA(KRW, KP)
	PSUBIS(J)	PRWLRD(KRW,KP)
NJ	FFRBS(J)	FRBAP(KP)
NBDS(KBD,J)	FFRRS(J)	FRBDP(KP)
BPDS(KBP,KBD,J)	FFRBDS(J)	FRRAP(KP)
BWDS(KBW,KBD,J)	FFRRDS(J)	FRRDP(KP)
BGSS(J)	FIBRLZ(IBRL,J)	PBNCAP(KP)
NRDS(KRD,J)	FIRRLZ(IRRL,J)	PBNCDP(KP)
RPDS(KRP,KRD,J)		PRNCAP(KP)
RWDS(KRW,KRD,J)	NKP	PRNCDP(KP)
RGSS(J)	KPBAIS(INTS,J)	PCBAFY(KP, IPCBAF)
FEBATZ(J)	KPRAIS(INTS,J)	PCBDFY(KP, IPCBDF)
ISMAB(J)	FRBAT(KP)	PCRAFY(KP, IPCRAF)
ISMAR(J)	FRRAT(KP)	PCRDFY(KP, IPCRDF)
ISUPAS(J)	FRBASA(J,KP)	BFMFY(KP,KT,IBFMF)
NINTS(J)	FRBASD(J,KP)	RFMFY(KP,KT,IRFMF)
BNDIS(INTS,J)	FRRASA(J,KP)	
KTERIS(INTS,J)	FRRASD(J,KP)	NKT
KPBAIS(INTS,J)	BMFDPT(KBD,KP,KT)	BMFDPT(KBD,KP,KT)
KPRAIS(INTS,J)	RMFDPT(KRD,KP,KT)	RMFDPT(KRD,KP,KT)
WIDIS(INTS,J)	BCRPP(KBP,KP)	BFMFY(KP,KT,IBFMF)
EFHIS(INTS,J)	BCRWP(KBW,KP)	RFMFY(KP,KT,IRFMF)
MNBDS(J)	RCRPP(KRP,KP)	
MNRDS(J)	RCRWP(KRW,KP)	
FRBASA(J,KP)	BFWFSP(J,KP)	
FRBASD(J,KP)	RFWFSP(J,KP)	
FRRASA(J,KP)	RLBAP(KP)	

The following are examples of variables that are related to each other. Within each group, any or all of the variables may need to be changed if any one of them is changed. An explanation of each group follows this list of variables:

- (1) NTRF, IRFB, IRFR.
- (2) IPRIT, IPRA(II).
- (3) IPR2T, IPRB(II).
- (4) MCSMAB, ISMAB(J).
- (5) MCSMAR, ISMAR(J).
- (6) IPGBW(KBW), BWGPG(KKBW, KBW).
- (7) IPGRW(KRW), RWGPG(KKRW, KRW).
- (8) BSARF(IB, IFPBS), FPBS(IFPBS), DSB, DFRB, DRRB, DZB.
- (9) RSAFR(IR, IFPRS), FPRS(IFPRS), DSR, DFRR, DZR.
- (10) MCFR, IWUCE, MNIE, EFCE.
- (11) MCFR, LVBWA(KBW), LVBWD(KBW), LVBAA(KBA), LVBAD(KBA), LVRWA(KRW), LVRWD(KRW), LVRAA(KRA), LVRAD(KRA).

An example of the relationship of variables within a group is demonstrated by Group (1). If NTRF is inputted with a time period for reading forces, IRFB and IRFR must indicate whether Blue or Red forces should be read. Similarly, IPRA and IPRB must indicate days when a detailed or ground summary output is desired by the appropriate flags in IPRIT and IPR2T. When the method for computing the sector of main attack for Blue or Red (MCSMAB or MCSMAR) is inputted as 3, arrays ISMAB and ISMAR must indicate which sectors are sectors of main attacks. Groups (10) and (11) also represent options where, if the method for computing force ratios (MCFR) is equal to 5 or 6, the variables in Group (10) may need to be changed; or, similarly, if MCFR is equal to 3 or 4, Group (11) is affected.

Another way variables are related is given by Groups (6), (7), (8), and (9). The variables in Groups (6) and (7) deal with weapon protection groups. The first variable indicates what protection group the weapon is in. The second variable indicates the number of weapons of a particular type needed

to protect weapons of a particular type according to the protection group indicated by the first variable. The variables in Groups (8) and (9) deal with how the model allocates aircraft shelters to notional airbases by looking at the FEBA position.

These groups are only a few examples of how different variables interact in the model. Again, only a knowledge of the model will ensure proper understanding of the inputs.

APPENDIX C

VARIABLE SIZES AND LOCATIONS

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Appendix C VARIABLE SIZES AND LOCATIONS

1. Maximum Dimensions

The following list indicates the values for the maximum number of types of quantities (such as sectors, regions, weapons, divisions, and aircraft) that can be inputted without changing COMMON and DIMENSION statements. If a larger number is desired for any index, all variables dependent on that index must be changed in all COMMON and DIMENSION statements. (Appendix B indicates the variables that need to be changed.)

Index of Variables	Variable Indicating Maximum Value of Index	Maximum Dimension Size
IB	NIB	4
IBAEF	NBAEF	8
IBDEF	NBDEF	8
IBFMF	NBFMF	8
IBRL	NIBRL	8
IFPBS	NIFPBS	10
IFPRS	NIFPRS	10
II		16
INTS	NIMAX	15
IPCBAF	NPCBAF	8
IPCBDF	NPCBDF	8
IPCBHF	NPCBHF	8
IPCRAF	NPCRAF	8
IPCRDF	NPCRDF	8

(columns concluded on next page)

IPCRHF	NPCRHF	8
IR	NIR	4
IRAEF	NRAEF	8
IRDEF	NRDEF	8
IRFMF	NRFMF	8
IRRL	NIRRL	8
ISEFBF	NSEFBF	8
ISEFRF	NSEFRF	8
J	NJ	10
KBA	NKBA	8
KBAM	NKBAM	10
KBD	NKBD	6
KBP	NKBP	must be 3
KBW	NKBW	10
KKBW	NKBW	10
KKRW	NKRW	10
KP	NKP	4
KRA	NKRA	8
KRAM	NKRAM	10
KRD	NKRD	6
KRP	NKRP	must be 3
KRW	NKRW	10
KT	NKT	4
LEB	NLEB	5
LER	NLER	5

2. Blank COMMON, Labeled COMMON, DIMENSION Statements

a. Blank COMMON

Whenever an array is enlarged beyond the size of its present dimension, blank COMMON, labeled COMMON, and all DIMENSION statements must reflect this increase. In Subsections 2b and 2c (below) is the list of variables in labeled COMMON and in DIMENSION statements written with variable indices to aid the user in changing array sizes. Blank COMMON is divided into two sections, entitled input variables and working variables. The former group of variables are listed in Appendix B in input order within each list. Since Appendix B does not deal with the working variables in blank COMMON, the following is a list of those variables with their parameter indices.

Working Variables - Blank COMMON

EBRDR(LEB.KBD.IB), EBRDS(LEB.KBD.J), EDGEH(J), EDGEL(J), ERRDR(LER, KRD, IR), ERRDS(LER, KRD, J), FEBA(J), FEIB(J), FEIR(J), ISCFFR(J), ISA, ISMA(J), KBDATV(KBD), KBDDTV(KBD), KPBA(J), KPBAN(J), KPRA(J), KPRAN(J), KRDATV(KRD), KRDDTV(KRD), KTER(J), KTERNB(J), KTERNR(J), LONSBR(IB), LONSRR(IR), MOT, MZT, PCBS(J), PCRS(J), TBSC, TBTPDS(KBD,J), TRSC, TRTPDS(KRD,J), TWBD(KBW,KBD), TWRD(KRW,KRD), WIDS(J), WIDSNB(J), WIDSNR(J), IPR1, MTT, IT, ITT, ITAY, YBAEDS(KBD,J), YBDEDS(KBD,J), YBPPDS(KBD,J), YRAEDS(KRD,J), YRDEDS(KRD,J), YRPPDS(KRD,J), BRWR(KBW), RRWR(KRW), CBCS(J), CRCS(J), CBWLS(KBW,J), CRWLS(KRW,J), TBPDS(J), TRPDS(J), CBPCS(J), CRPCS(J), CBWL(KBW), CRWL(KRW), CRBPCS(J), RBPCS(J), CABRPZ, CARRPZ, CABRWZ(KBW), CARRWZ(KRW), CBC, CBPC, CRC, CRPC, RBPC, CRBPC, ISAS(J), VBAS(J), VBGS(J), VRAS(J), VRGS(J), FRRBS(J), FRBRS(J), BAS(KBA,J), RAS(KRA,J), BAISR(KBA,IR), RAISR(KRA,IB), VBAASF(KBA), VBADSF(KBA), VRAASF(KRA), VRADSF(KRA). VBWASP(KBW, KP), VBWDSP(KBW, KP), VRWASP(KRW, KP), VRWDSP(KRW, KP), TBWDR(KBW, KBD, IB), TBWDS(KBW, KBD, J), TRWDR(KRW, KRD, IR),
TRWDS(KRW, KRD, J), ISCFF2(J), CFEBA(J), SUMM (largest value of
KBA, KRA, KBAM, KRAM, KBW, KRW, IB, or IR), CBSLI, CRSLI,
CBSFM(M, KBA), * CRSFM(M, KRA), * CBAKM(M, KBA), * CRAKM(M, KRA), *
CBASK, CBANK, CRASK, CRANK, CBGL, CBSML, CRGL, CRSML, CBNBC,
CRNBC, CBCRI, CRCRI, CBWLIR(KBW), CRWLIR(KRW), CBNBCM, CRNBCM,
CBSAD, CRSAD, CBWS(KBW), CRWS(KRW), CBAS(KBA), CRAS(KRA),
CBPS, CRPS, CBGKRS(KBW, KRW), CRGKBS(KRW, KBW), CBAKRS(KRA, KRW),
CRAKBS(KBA, KRW), CBGKRP(KBW), CRGKBP(KRW), CBAKRP(KBA),
CRAKBP(KRA)

b. Labeled COMMON

Routines AC1, AC2, AC3, AC4, AC5, AC6, and AC7 (together with their calling routine AC) contain labeled COMMON identified by C1, C2, and C3. What follows is a list of variables with their parameter indices for each COMMON block. Again, these variables must be redimensioned when enlarging any value of the list in Section 1 of this appendix (above). In some cases, a variable will be indexed to "A" or "B"; and when this occurs, the value of the largest parameter should be selected for dimensioning the array.

Working Variables Labeled COMMON Cl

PBAF1(KBA,IB,J), PBAR1(KBA,IB,J), PBAZ1(KBA,J),
PBAF2(KBA,IB,IR), PBAR2(KBA,IB,IR), PBAZ2(KBA,IR), PBAF3(KBA,IB),
PBAR3(KBA,IB), PBAZ3(KBA,IB), PBAF4F(KBA,IB,IR), PBAF4Z(KBA,IB), PBAR4F(KBA,IB,IR), PBAR4Z(KBA,IB), PBAZ4F(KBA,IB,IR), PBAZ4R(KBA,IR), PBAZ4Z(KBA),
PBAF5F(KBA,IB,IR), PBAF5R(KBA,IB,IR), PBAF5Z(KBA,IB),
PBAR5F(KBA,IB,IR), PBAR5R(KBA,IB,IR), PBAR5Z(KBA,IB),
PBAZ5F(KBA,IR), PBAZ5R(KBA,IR), PBAZ5Z(KBA), PBAF6(KBA,IB),

^{*}M must be 11 (on the four working variables thus marked).

PBAR6(KBA,IB), PBAZ6(KBA), PBAF7F(KBA,IB,IR), PBAR7F(KBA,IB,IR),
PBAZ7F(KBA,IR), PRAF1(KRA,IR,J), PRAR1(KRA,IR,J), PRAZ1(KRA,J),
PRAF2(KRA,IR,IB), PRAR2(KRA,IR,IB), PRAZ2(KRA,IB),
PRAF3(KRA,IR), PRAR3(KRA,IR), PRAZ3(KRA,IR), PRAF4F(KRA,IR,IB),
PRAF4R(KRA,IR,IB), PRAF4Z(KRA,IR), PRAZ4F(KRA,IR,IB),
PRAR4R(KRA,IR,IB), PRAZ4Z(KRA,IR), PRAZ4F(KRA,IB),
PRAZ4R(KRA,IB), PRAZ4Z(KRA), PRAF5F(KRA,IR,IB), PRAF5Z(KRA,IR,IB),
PRAF5Z(KRA,IR,IB), PRAF5F(KRA,IR,IB), PRAF5Z(KRA,IR,IB),
PRAR5Z(KRA,IR), PRAZ5F(KRA,IB), PRAZ6(KRA), PRAF7F(KRA,IR,IB),
PRAR7F(KRA,IR,IB), PRAZ7F(KRA,IB)

Working Variables Labeled COMMON C2

BACS(KBA,J), BACG(KBA,J), BACA(KBA,J), BACE(KBA,IR), BACD(KBA, IB), BAFS(KBA, IR), BAFG(KBA, IR), BAFA(KBA, IR), BAFE (KBA, IR), BAFD (KBA, IB), BARS (KBA, IR), BARG (KBA, IR), BARA(KBA, IR), BARE(KBA, IR), BARD(KBA, IB), BAZS(KBA), BAZG(KBA), BAZA(KBA), BAZE(KBA), BAZD(KBA), BACSK(KBA,J), BACGK(KBA,J), BACAK(KBA,J), BACEK(KBA,IR), BACDK(KBA,IB), BAFSK(KBA, IR), BAFGK(KBA, IR), BAFAK(KBA, IR), BAFEK(KBA, IR), BAFDK(KBA, IB), BARSK(KBA, IR), BARGK(KBA, IR), BARAK(KBA, IR), BAREK(KBA, IR), BARDK(KBA, IB), BAZSK(KBA), BAZGK(KBA), BAZAK(KBA), BAZEK(KBA), BAZDK(KBA), BAIDR(KBA, IR), BAIDRK(KBA, IR), RACS(KRA, J), RACG(KRA, J), RACA(KRA, J), RACE(KRA, IB), RACD(KRA, IR), RAFS(KRA, IB), RAFG(KRA, IB), RAFA(KRA, IB), RAFE(KRA, IB), RAFD(KRA, IR), RARS(KRA, IB), RARG(KRA, IB), RARA(KRA, IB), RARE(KRA, IB), RARD(KRA, IR), RAZS(KRA), RAZG(KRA), RAZA(KRA), RAZE(KRA), RAZD(KRA), RACSK(KRA, J), RACGK(KRA, J), RACEK(KRA, IB), RACDK(KRA, IR), RAFSK(KRA, IB), RAFGK(KRA, IB), RAFAK(KRA, IB), RAFEK(KRA, IB), RAFDK(KRA, IR), RARSK(KRA, IB), RARGK(KRA, IB), RARAK(KRA, IB), RAREK(KRA, IB), RARDK(KRA, IR), RAZSK(KRA), RAZGK(KRA), RAZAK(KRA), RAZEK(KRA), RAZDK(KRA), RAIDR(KRA, IB), RAIDRK(KRA, IB)

Working Variables Labeled COMMON C3

BSAFR(IB), BSARR(IB), RSAFR(IR), RSARR(IR), BAFRN(IB),
BFARS(IB), BARRN(IB), BARRS(IB), RAFRN(IR), RAFRS(IR),
RARRN(IR), RARRS(IR), PARIT(KRA or KBA,IR or IB),
PAR2T(KRA or KBA,IR or IB), PAFIT(KRA or KBA,IR or IB),
PAF2T(KRA or KBA,IR or IB), VNS(J), PCASS(J), WBAFR(IB),
WBARR(IB), WRAFR(IR), WRARR(IR), SUPM(KBA or KRA),
TK1(KBA or KRA), BSS(J), BSFR(IB), BGS(J), RSS(J), RSFR(IR),
RGS(J), SHTS(KBA or KRA), STOR(KRA), RAWVS(J), RDWVS(J),
BAWVS(J), BDWVS(J), BAFRNK(IB), BAFRSK(IB), BARRNK(IB),
BARRSK(IB), RAFRNK(IR), RAFRSK(IR), RARRNK(IR), RARRSK(IR),
BSSK(J), BSFRK(IB), BGSK(J), RSSK(J), RSFRK(IR), RGSK(J),
STOB(KBA), BSRRK(IB), RSRRK(IR), BAGFRK(IB), BAGRRK(IB),
RAGFRK(IR), RAGRRK(IR), BASHT(KRA), PRBSRS,
PRRSRS, BAGZK, RAGZK, BSAMZK, RSAMZK, BSAZ, RSAZ, ASAM,
NKBW1, NKRW1

c. DIMENSION Statements

The following is a list of routines in IDAGAM I, along with the variables that appear in the dimension statements of that routine. The variables are written in a form that indicates the parameters upon which the variables are dependent and that thus facilitates making changes to the DIMENSION statements. In some cases, a variable will be indexed to parameter "A" or "B"; and when this occurs, the value of the largest parameter should be selected for dimensioning the array. The index "max dim" is indicated for the variables in routine RF below, and the value for dimensioning should be the largest number of all indices. (For a list of indices, see Section 1 of this Appendix.) The value now in the dimension statement for RF is 20.

EIGENV

R(KBW, KRW), W(KBW)

TCTZ

TBAWVD(KBD), TBDWVD(KBD), TRAWVD(KRD), TRDWVD(KRD),
PBAKRP(2,KBW,KRW), PBDKRP(2,KBW,KRW), PRAKBP(2,KRW,KBW),
PRDKBP(2,KRW,KBD), PBAAKR(KBA,KRW), PBADKR(KBA,KRW),
PRAAKB(KRA,KBW), PRADKB(KRA,KBW), BSUM(product of KBW and KRW),
RSUM(product of KBW and KRW)

ATTRIT

S(KBA or KRA), PK(KBA or KRA)

AC7

BAFAT(KBA,IR), BARAT(KBA,IR), BAZAT(KBA), RAFAT(KRA,IB), RARAT(KRA,IB), RAZAT(KRA), BAIDRT(KBA,IR), RAIDRT(KRA,IB), WDR(max of KBW,KRW), RWLR(KRW,IR), BWLR(KBW,IB), RCR(IR), BCR(IB), BSAFRD(IB), BSAFRD(IR), RSAFRD(IR)

GC

ABPLDS(KBP, KBD), ARPLDS(KRP, KRD), BCS(J), BPWLA(KBW), BPWLD(KBW), BPWLDS(KBW, KBD), BWLDS(KBW, KBD), BWS(KBW), EBPLDS(KBP, KBD), ERPLDS(KRP, KRD), PBWLSA(KBW), PBWLSD(KBW), PRWLSA(KRW), PRWLSD(KRW), RCS(J), RPWLA(KRW), RPWLD(KRW), RPWLDS(KRW, KRD), RWLDS(KRW, KRD), RWS(KRW), BWLS(KBW), RWLS(KRW), BPLDS(KBP, KBD), RPLDS(KRP, KRD), PBAAKR(KBA, KRW), PBADKR(KBA, KRW), PBAKRP(2, KBW, KRW), PBDKRP(2, KBW, KRW), PRAAKB(KRA, KBW), PRADKB(KRA, KBW), PRAKBP(2, KRW, KBW), PRDKBP(2, KRW, KBW), AABMAR(KBAM, KRW), AABMDR(KBAM, KRW), AABWAR(KBW, KRW), AABWDR(KBW, KRW), AARMAB(KRAM, KBW), AARMDB(KRAM, KBW), AARWAB(KRW, KBW), AARWDB(KRW, KBW), PBWDS(KBW), PRWDS(KRW), UBWDS(KBW, KBD), URWDS(KRW, KRD), VIBAA(KBA), VIBAD(KBA), VIBWAP(KBW,2), VIBWDP(KBW,2) VIRAA(KRA), VIRAD(KRA), VIRWAP(KRW,2), VIRWDP(KRW,2), BAEFYS (IBAEF), BDEFYS (IBDEF), BFMFYS (IBFMF), PCBAYS (IPCBAF), PCBDYS(IPCBDF), PCRAYS(IPCRAF), PCRDYS(IPCRDF), RAEFYS(IRAEF), RDEFYS(IRDEF), RFMFYS(IRFMF), BAKRS(KBA,KRW), BGKRS(KBW,KRW), RAKBS(KRA,KBW), RGKBS(KRW,KBW), BAKRP(KBA), BGKRP(KBW), RAKBP(KRA), RGKBP(KRW), BSUM(product of KBW and KRW), RSUM(product of KRW and KBW)

TCl

BRDR(KBD,IB), BRDS(KBD,J), BRPDR(KBP,KBD,IB), BRPDS(KBP,KBD,J),
BRWDR(KBW,KBD,IB), BRWDS(KBW,KBD,J), BRWN(KBW), BRWRZT(KBW),
BTPRDR(KBD,IB), BTPRDS(KBD,J), BWADR(KBW,KBD,IB),
BWADS(KBW,KBD,J), BWANDR(KBW,KBD,IB), BWANDS(KBW,KBD,J),
BWNDR(KBW,KBD,IB), BWNDS(KBW,KBD,J), BWNT(KBW),
BWRRDR(KBW,KBD,IB), BWRRDS(KBW,KBD,J), DEBRDD(LEB),
DERRDD(LER), RRDR(KRD,IR), RRDS(KRD,J), RRPDR(KRP,KRD,IR),
RRPDS(KRP,KRD,J), RRWDR(KRW,KRD,IR), RRWDS(KRW,KRD,J),
RRWN(KRW), RRWRZT(KRW), RTPRDR(KRD,IR), RTPRDS(KRD,J),
RWADR(KRW,KRD,IR), RWADS(KRW,KRD,J), RWANDR(KRW,KRD,IR),
RWANDS(KRW,KRD,J), RWNDR(KRW,KRD,IR), RWNDS(KRW,KRD,J),
TBRWDR(KBW,KBD,IB), TBRWDS(KBW,KBD,J), TBTPDR(KBD,IB),
TRRWDR(KRW,KRD,IR), TRRWDS(KRW,KRD,J), TRTPDR(KRD,IR),
VIBWMN(KBW), VIBWMX(KBW), VIRWMN(KRW), VIRWMX(KRW)

TC2

BAWVS(J), BDWVS(J), NBDSZR(KBD), NDSRS(KBD or KRD),
NNBDZ(KBD), NNDR(KBD or KRD), NNRDZ(KRD), NRDSZR(KRD),
RAWVS(J), RDWVS(J), WV1DR(KBD or KRD), WV1DS(KBD or KRD),
BGSSR(IB), BGSSS(J), RGSSR(IR), RGSSS(J), RNR(IR or IB),
PSDS(KBD or KRD), NDSSR(KBD or KRD), NNDS(KBD or KRD),
ISMF(J), KPBAY(J), KPRAY(J), PSDR(KBD or KRD), TBTPDR(KBD,IB),
TRTPDR(KRD,IR)

RF

Al(max dim), A2(max dim, max dim), A3(max dim, max dim, max dim)

3. RP NAMELIST Groups

The following is the list of variables presently in each NAMELIST groups in RP. Unless the NAMELIST group is changed within the program, the following variables are the only parameters that can be changed during any desired time period. The list below contains the variables in the same order as the program and thus indicates the order of storage.

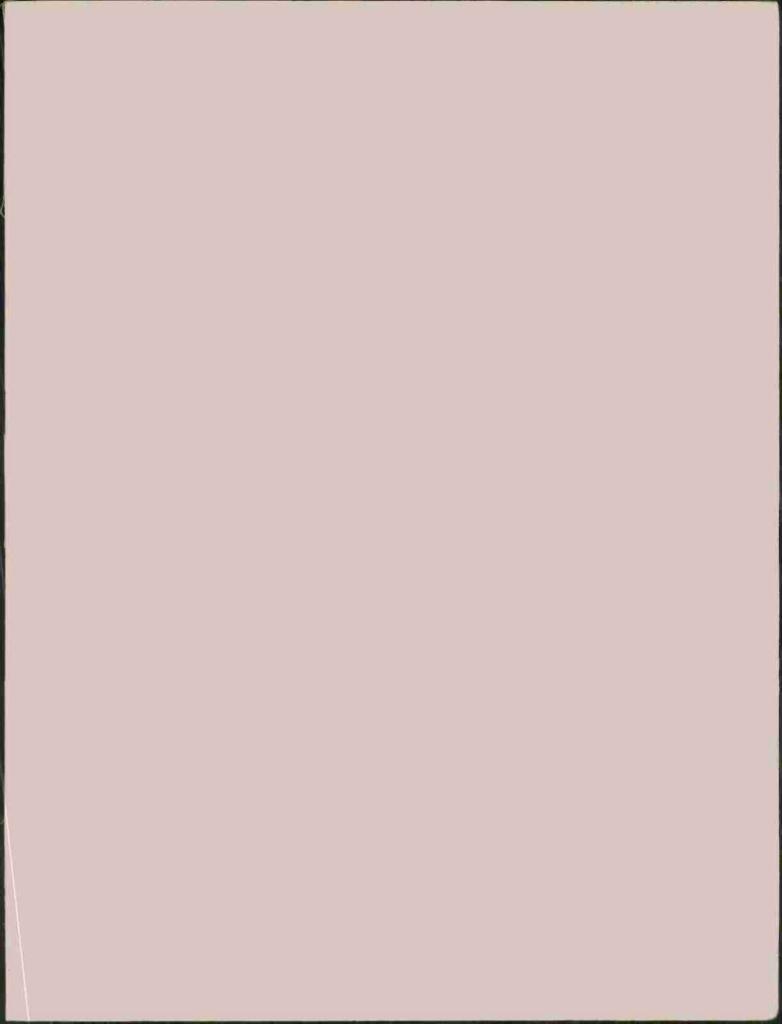
NAMEL

MCSMAB, MCSMAR, ISMAB(J), ISMAR(J), FRBAT(KP), FRRAT(KP),
FRGASA(J,KP), FRBASD(J,KP), FRRASA(J,KP), FRRASD(J,KP),
PBCSSD(KBD), PRCSSD(KRD), BMFAS(J), RMFAS(J), FFRBS(J),
FFRRS(J), BRLZAI(IBRL), BRLZDI(IBRL), RRLZAI(IRRL),
RRLZDI(IRRL), FIBRLZ(IBRL,J), FIRRLZ(IRRL,J), RLBAP(KP),
RLBDP(KP), RLRAP(KP), RLRDP(KP), RLBAFF, RLRAFF, RLBDFM,
RLRDFM, IBGFCR, IRGFCR, FRBAFF, FRRAFF, FRBAP(KP), FRBDP(KP),
FRRAP(KP), FRRDP(KP), MBRFBA, MBRFRD, MRBERA, MRBFRD,
BRRAD(KBD), RRRAD(KRD), BRRDD(KBD), RRRDD(KRD)

NAME 2

IDEAF, IDAAF, ISMAAF, IASMAF, IGNAAF, IAGNAF, IASAF, IANSAF, IRBAF(KBA), IRBAR(KBA), IRBAZ(KBA), IRRAF(KRA), IRRAR(KRA), IRRAZ(KRA), IBAFCR, IRAFCR, PBA1(KBA), PBA2(KBA), PBA3(KBA), PBA4(KBA), PBA5(KBA), PBA6(KBA), PRA1(KRA), RRA2(KRA), PRA3(KRA), PRA4(KRA), PRA5(KRA), PRA6(KRA), PBACS(KBA), PRACS(KRA), PBAAS(KBA), PRASS(KRA), BDED(L), BDDEC(L), BDDEF(L), BDDER(L), BDDEZ(L), BDDAC(L), BDDAF(L), BDDAR(L), BDDAZ(L), BDSA(L), BDSA(L), BDSA(L), BDGC(L), BDGF(L), BDGC(L), BDGC(L), BDGG, BDAS, BDAN, RDED(L), RDDEC(L), RDDEF(L), RDDEZ(L), RDDAC(L), RDDAF(L), RDDAC(L), RDSA(L), RDGA(L), RDGA(L), RDGA(L), RDSA(L), RDGA(L), RD

BKAD(KBA, KRA), BKS(KRA), BKG(KRA), BKSS(KBA), BKGG(KBA),
BKAS(KBA), BKAN(KBA), RKED(KRA, KBA), RKDE(KRA, KBA),
RKDA(KRA, KBA), RKAD(KRA, KBA), RKS(KBA), RKG(KBA), RKSS(KRA),
RKGG(KRA), RKAS(KRA), RKAN(KRA), BSFRAK(KRA), RSFBAK(KBA),
FBASAG, FRASAG, BMCASS, RMCASS, BMABAS, RMABAS, BMSPSC,
RMSPCS, BMSPSA, RMSPSA, WFCBSN, WFCRSN, PDBANG(KBA),
PDRANG(KRA), ABRFRD, ARBFBD, FBARRR(IB,IR), FRARBR(IR,IB),
BAFRCA, RAFBCA, BSCA(KBA), RSCA(KRA), BAARNS, RAABNS,
FPBS(IFPBS), FPRS(IRPRS), DSB, DFRB, DRRB, DZB, DSR, DFRR,
DRRR, DSR, SRB1(KBA), SRB2(KBA), SRB3(KBA), SRB4(KBA),
SRB5(KBA), SRB6(KBA), SRR1(KRA), SRR2(KRA), SRR3(KRA),
FFBAKH(KBA), FFBEKH, FFBDKH, FFRAKH(KRA), FFREKH, FFRDKH,
PBAAGM(KBA), PRAAGM(KRA), ARBFRA, ABRFBA, PABSDR, PARSDB,
PBA7(KBA), PRA7(KRA), SRB7(KBA), SRR7(KRA)



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